

MODERN CONTROL THEORY APPLICATION IN  
MILL MAIN DRIVE DESIGN.

by

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ABSTRACT.

Modern Control Theory is applied to analyze an existing aluminum mill drive, which was originally designed by Classical Methods.

The system is studied with Optimal Control and z-transform zero-pole locus tools.

The results and also the original design are compared with the performance of simulation. The models are built with the transition matrix and iterative procedures.

Conclusions about the appropriated design methods and improvements to the control scheme result from the investigation.

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## INTRODUCTORY SECTION.

Elements of Modern Control Theory are applied to an already existing aluminum mill, which was design by the classical method of Bode Diagrams.

Design and modelling are the main orientation taken in consideration.

It is studied the design of discrete time elements, like SCR packages and future digital regulators, with the appropriated tools.

A brief excursion is done in the area of Optimal Control to see its applicability.

Extensive modelling of sections, and the overall system is performed in a digital computer to fine tune components and analyze response parameters.

## REVIEW OF LITERATURE.

The relation between the different treated topics and the literature which is used, is described.

### 1 EXISTING DESIGN.

Bode Diagrams and loop stabilization from reference 1.  
Mill, motor data and existing control from reference 2.

### 2 STATE VARIABLES ANALYSIS.

State variable equation and transition matrix from reference 3 and reference 4.

### 3 OPTIMAL CONTROL.

Optimal Control for a linear system and the Ricatti Equation from reference 5.

4 ITERATION METHOD.

Iteration method applied to non-linear systems from reference 6.

5 DIGITAL REGULATOR.

Z-transform design and pole-zero map locus from reference 7.

Program Locus from reference 8.

## MATERIALS AND METHODS.

### 1 MATERIALS UTILIZED.

The computer tasks were performed at the General Electric Co., Salem, Virginia facilities.

A time-shared DEC-VAX minicomputer run the models and in the runoff mode had the final documentation.

The programs are written in fortran-77 and VAX-basic.

### 2 THEORY AND METHODS UTILIZED.

For control design:

Bode Diagram.

Optimal Control.

Z-transform zero-pole locus diagram.

For system modelling:

Transition matrix.

Iteration.

## RESULTS.

1. Development of an iterative method to model non-linear systems.

2. DC motor efficiency improvement of 5%, with a better control of the motor brush voltage. Also it improves the load power factor.

3. Creation of a reasonable model for SCR packages, which defines the speed of the inner loop.

4. Demonstration that in analog regulators containing SCR output power, the z-transform must be used in the design of the inner loop, instead of Bode Diagrams.

5. It is shown that higher digital current regulator responses are obtained when deleting the current-rate inner loop. Current-rate limit control is done through the SCR voltage according with a calculated value.

## THE SYSTEM UNDER STUDY.

### 1.1 INTRODUCTION.

The existing system to be analyzed, it is the main drive of an aluminum hot strip mill, which has been installed in Logan, Kentucky, during 1983, and it is in production since then.

The main drive consists of two motors, respectively coupled to the top and bottom working rolls. Each motor has a power of 6000 HP. When there is metal in stand, the motors share the load under a current balance control circuit.

Each motor has an independent armature thyristor package named SILCO+ (TM), and a smaller field exciter thyristor package.

The regulation includes: armature current rate, armature current, rotor speed rate, rotor speed, motor field, motor terminal voltage, and armature current balance between both motors.

Additional regulation exists for roll change spindle

spotting, operational ramp and ramp current limit spillover.

The motors work in two distinctive zones of operation: below base speed and above base speed.

Below base speed the field is fixed at "full field", and control of speed and torque is done through armature voltage.

Above base speed the armature voltage is left at its maximum value, and speed and torque are controlled through the field.

The system is described at different levels, by the following documents:

Elementaries 228B5901 for drive control.

Elementaries 228B3462 for SILCO+ (TM) packages.

Backsheets for all electronic cards being used.

Specifications for requisition 541-32360

Calculations for elementaries 228B5901.

Motor data sheets.

Every aspect of the system is considered at the right level of documentation.

The system will be briefly described here, in particular the block diagrams of the regulators.

Later chapters will depart from these block diagrams to develop models and redesign the control under new concepts.

## 1.2 ARMATURE CURRENT REGULATOR LOOP.

### 1.2.1 Loop Criteria.

Design for an inner current rate loop crossover frequency of 1200 [rad/sec] and an outer current loop crossover of 30 [rad/sec], with the motor at stall.

Use saturated armature inductance to determine  $T_a$ .

### 1.2.2 Motor Armature.

$$L \text{ arm. (saturated)} = 0.298 \text{ [mHy]}$$

$$R \text{ arm. (hot)} = 0.008282 \text{ [Ohms]}$$

$$T \text{ total} = 0.03598 \text{ [sec]}$$

The motor armature transfer function is:

$$T = \frac{1/R_a}{1 + T_a * s},$$

and plugging values yields:

$$T = \frac{120.74}{1 + s / 27.8}$$

### 1.2.3 Thyristor Converter (SILCO+ (TM)).

10 [Volts] input reference gives 700 [Volts] output on buses.

To facilitate switching from forward to reverse bridge and vice versa, there is a dead band of plus/minus 5.7 [Volts].



The converter has a lag at 2200 [rad/sec].

The dynamic transfer function is:

$$T = \frac{162.8}{1 + s / 2200}$$

#### 1.2.4 Current Regulator Amplifier.

The adjustable gain is given by the potentiometer R6. When its cursor is at middle position the gain is:

$$G = 1.714$$

The overall transfer function of the amplifier with its associated components is:

$$T = \frac{(1 + R14 * C14 * s) * (R38 + R6 + R50)}{S * C14 * (R38 + (1 - A) * R6)} * \frac{(R38 + R6) * R50 * s * C18}{R38 + R6 + R50} + 1 * \frac{1}{(s * R50 * C18) + 1}$$

Adopting  $R14 * C14 = 3.5 / Wc$

where Wc is the crossover frequency of 1200 [rad/sec], and with the coefficient A = 0.5, which means gain pot in middle position, and replacing components values, it yields a transfer function:

$$T = \frac{113,7 * (1 + s / 342) * (1 + s / 1694)}{s * C14 * (1 + s / 25.6)}$$

## 1.2.5 Current Isolator.

The current isolator outputs 10 [Volts] for 250% of the armature nominal current. The armature nominal current is 7120 [Amps].

The transfer function of the current isolator is:

$$T = 5.10E-04$$

## 1.2.6 Rate Feedback Network.

The transfer function of the network is:

$$T = \frac{s * C12}{1 + s * R12 * C12}$$

Assigning values to  $C12 = 0.5$  [microFar], and  $R12 = 1.2$  [kOhms], the transfer function value is:

$$T = \frac{5.0E-07 * s}{1 + s / 1667}$$

## 1.2.7 Feedback Network.

The transfer function of the feedback network is:

$$T = \frac{(R58 // R65) * 22.1}{(121 + 4.75) * 47.5 * 47.5} \text{ [1/kOhms]},$$

and with  $R65 = 475$  [kOhms], the transfer function is:

$$T = \frac{R58 \text{ [kOhms]} * 475 * 7.789E-08}{R58 \text{ [kOhms]} + 475} \text{ [Siemens]}$$

## 1.2.8 Reference Network.

Similarly, the reference network has a transfer function:

$$T = \frac{R58 \text{ [kOhms]} * 475 * 7.789E-08}{R58 \text{ [kOhms]} + 475} \text{ [Siemens]}$$

## 1.2.9 Regulator Calculation.

To obtain 30 [rad/sec] current response, the 1/Hrate cuts the 1/Hcurr line at that frequency, in the Bode Diagram.

$$1/Hrate = 1.2E08 \text{ for } s = 30 \text{ [rad/sec]}$$

Taken now 1/Hcurr = 1.2E08, yields a value of R58 = 392 [kOhms]

The 1200 [rad/sec] rate response will occur, if the reciprocal of the rate feedback equals the forward path gain, at that frequency.

$$1/Hrate = 3.15E06 \text{ at } s = 1200 \text{ [rad/sec]}$$

The forward path gain around 1200 [rad/sec], considering the Bode approximation is:

$$G = \frac{7.30E06}{C14 * (s ** 2)},$$

from where with G = 3.15E06 and s = 1200 [rad/sec], it results:

$$C14 = 1.6 \text{ [microFar]}$$

1.2.10 Solved Current Feedback Block And Reference Block.

Replacing the value of  $R58 = 392$  [kOhms] into the respective transfer functions, it results in a feedback block and reference block:

$$T = 1.633E-05 \text{ [Siemens]}$$

1.2.11 Solved Current Regulator Amplifier Block.

Plugging the value of  $C14 = 1.6$  [microFar] in the expression of the transfer function, it gives:

$$T = \frac{7.10625E07 * (1 + s / 342) * (1 + s / 1694)}{s * (1 + s / 25.6)}$$

1.2.12 Block Diagram.

Figure 1 shows the current regulator block diagram.

1.3 SPEED REGULATOR LOOP.

1.3.1 Loop Criteria.

Design for a speed response of 10 [rad/sec].

1.3.2 Motor Acceleration Below Base Speed.

The motor angular speed is:

$$W \text{ [rad/sec]} = \frac{Kt * Ia}{s * J} ,$$

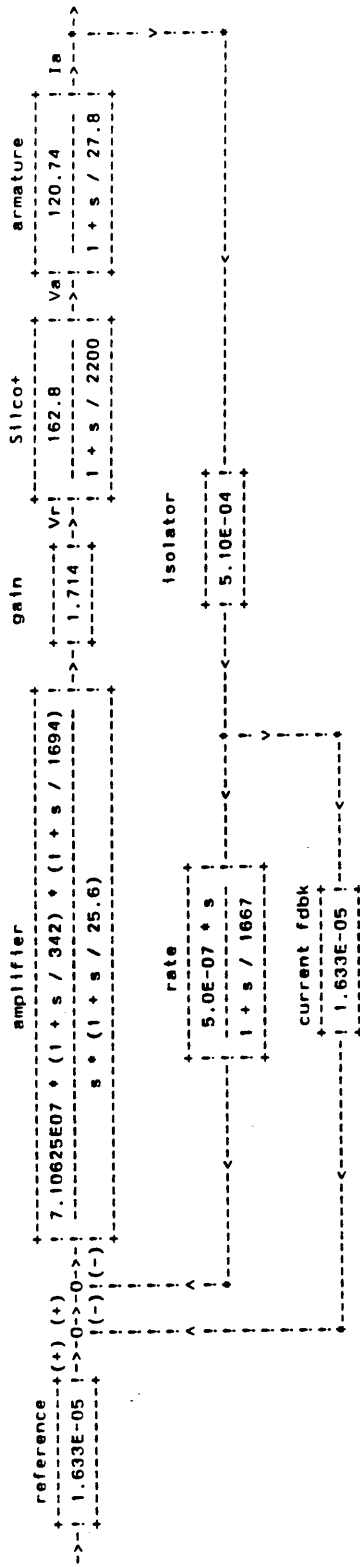


Figure # 1. Current Regulator Block Diagram.

$$\text{where } K_t = \frac{\text{Torque}}{I \text{ nominal}}$$

$$K_t = \frac{5250 * \text{HP}}{N * I_a} \quad [\text{lb-ft/Amp}] ,$$

where HP is horsepower and N is RPMs at base speed.

Plugging the motor data yields:

$$K_t = 110.60 \quad [\text{lb-ft/Amp}]$$

The angular inertia is:

$$J = \frac{w(k^{**2})}{32.3} \quad [\text{slug-ft}^{**2}]$$

Plugging the mill inertia referred to the shaft, 1921561 [lb-ft\*\*2], it yields:

$$J = 59491 \quad [\text{slug-ft}^{**2}]$$

The transfer function of the motor block, where  $I_a$  is the input and  $W$ , the speed in [rad/sec], is the output, is:

$$T = \frac{K_t}{s * J} ,$$

and replacing values yields:

$$T = \frac{1.86E-03}{s}$$

### 1.3.3 Current Regulator Block.

The current regulator as a whole has 275% of the nominal current with 10 [Volts] input reference, with a response of 30 [rad/sec].

$$T = \frac{7120 * 2.75}{10 * (1 + s / 30)},$$

$$T = \frac{1958}{1 + s / 30}$$

#### 1.3.4 Speed Regulator Amplifier.

The gain is 1.646, when the speed gain potentiometer is in the middle position.

$$G = 1.646$$

The transfer function of the rest of the amplifier is:

$$T = \frac{(1 + s * (C20 + C21) * (R20 + 47.5E03))}{s * (C20 + C21)} * \frac{(1 + s * C22 * (47.5E03 + R22))}{(1 + s * R22 * C22)},$$

where  $C22 * (47.5E03 + R22) = 1 / 30$  [sec/rad] ,

and  $C22 * R22 = 1 / 100$  [sec/rad] ,

and  $(C20 + C21) * (R20 + 47.5E03) = 1 / 5$  [sec/rad]

Plugging the time constants in the expression results:

$$T = \frac{(1 + s / 5) * (1 + s / 30)}{s * (C20 + C21) * (1 + s / 100)}$$

C20 and C21 are calculated in the next steps.

### 1.3.5 Speed Reference Block.

A reference of 10 [Volts] to the regulator will produce 0.1 [mAmp] into the amplifier summing junction.

$$T = 1.0E-05$$

### 1.3.6 Magnitude Conversion Block.

To convert from [rad/sec] angular speed to [rpm], it is needed to multiply by 60 and divide by  $2 * \text{PI}$ .

$$T = 9.55$$

### 1.3.7 Tachometer Block.

The tachometer and tachometer filter circuit deliver 10 [Volts] at 80 [rpm] turns in the motor rotor.

$$T = 0.125$$

### 1.3.8 Feedback Network Block.

The transfer function of the network is:

$$T = \frac{1 + s * C24 * (R33 + R24)}{R33 * (1 + s * C24 * R24)}$$

R33 has a fix value of 100 [kOhms].

Adopting the time constants as:

$$C24 * (R33 + R24) = 1 / 5 \text{ [sec/rad] ,}$$

and  $C24 * R24 = 1 / 15 \text{ [sec/rad] ,}$

the transfer function is:



$$T = \frac{1.0E-05 * (1 + s / 5)}{(1 + s / 7.4)}$$

### 1.3.9 The Speed Regulator Solution.

To get a speed response of 10 [rad/sec], the forward path gain will cross the reciprocal of the feedback path gain at that frequency. The feedback path without lead, lag compensation is:

$$H = 1.0E-05 * 9.55 * 0.125$$

$$H = 1.19E-05 ,$$

and the reciprocal:

$$1 / H = 8.37E04$$

The forward path gain, from 5 [rad/sec] to 100 [rad/sec] is:

$$G = \frac{(R20 + 47.5E03) * 1.646 * 1958 * 1.86E-03}{s}$$

For s equal 10 [rad/sec] and G equal 8.37E04, the value of R20 is:

$$R20 = 100 \text{ [kOhms]} .$$

Recalling that:

$$(C20 + C21) * (R20 + 47.5E03) = 1 / 5 \text{ [sec/rad]},$$

it yields:

$$C20 + C21 = 1.33 \text{ [microFar]}$$

The regulating amplifier transfer function is:

$$T = \frac{0.75187E06 * (1 + s / 5) * (1 + s / 30)}{s * (1 + s / 90.5)}$$

1.3.10 Block Diagram.

Figure 2 shows the speed regulator block diagram.

1.4 MOTOR FIELD REGULATOR LOOP.

1.4.1 Loop Criteria.

Design for a field response of 20 [rad/sec].

1.4.2 Motor Field Transfer Function.

The following values are listed in the motor data sheet.

$I_{ff} = 310$  [Amps] , full field current.

$HD = 152$  [Volts] , hot drop on field terminals.

$T_f = 4.27$  [sec] , unsaturated shunt field time constant(hot).

The field transfer function is:

$$T = \frac{I_{ff} / HD}{1 + s * T_f} \quad [\text{Amp/Volts}].$$

Plugging values, it yields:

$$T = \frac{2.039}{1 + s / 0.234} \quad [\text{Amp/Volts}].$$

1.4.3 SCR Package Block.

The SCR field package delivers 560 [Volts] with 10 [Volts] reference, with a lag at 1000 [rad/sec].

Its transfer function is:

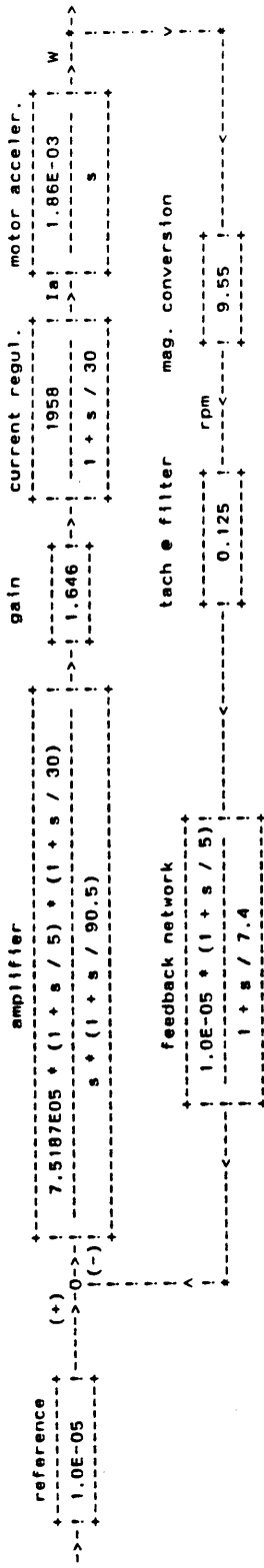


Figure # 2. Speed Regulator Block Diagram.

$$T = \frac{56}{1 + s / 1000}$$

#### 1.4.4 Field Regulator Amplifier.

The gain is 1.7, when the field gain potentiometer is in its middle position.

$$G = 1.7$$

The transfer function of the rest of the amplifier is

$$T = \frac{R19}{1 + s * C3 * R19} .$$

The lag is at 100 [rad/sec], to stabilize the amplifier, then

$$T = \frac{R19}{1 + s / 100}$$

#### 1.4.5 Field Reference Block.

A reference of 10 [Volts] to the regulator will produce 1.0E-04 [Amp] into the amplifier summing junction.

$$T = 1.0E-05 \text{ [Siemens]}.$$

#### 1.4.6 Shunt And Current Isolator Block.

The combination of the shunt, current isolator and current isolator amplifier will deliver 8 [Volts] at full field.

$$T = 8 / I_{ff} \text{ [Volts/Amp] ,}$$

$$T = 0.0258 \text{ [Volts/Amp] .}$$

#### 1.4.7 Feedback Network.

The feedback network consists of a 80 [kOhms] resistor.

$$T = 1.25E-05 \text{ [Siemens]}$$

#### 1.4.8 The Field Regulator Solution.

To get a field response of 20 [rad/sec], the forward path gain will cross the reciprocal of the feedback path gain, at that frequency. The feedback path gain is:

$$H = 0.0258 * 1.25E-05$$

$$H = 3.22E-07 .$$

The reciprocal is:

$$1 / H = 3.1E06 .$$

The forward path gain for frequencies around 20 [rad/sec] is:

$$G = 1.7 * R19 * 56 * 2.039 * 0.234 / s .$$

For s equal 20 [rad/sec] and G equal 3.1E06 , R19 is:

$$R19 = 1.365 \text{ [megOhms] .}$$

The actual values used are R19 equal 1.21 [megOhms] and C3 equal 0.01 [microFar] .

The regulating amplifier transfer function is:

$$T = \frac{1.21E06}{1 + s / 82.6} .$$

#### 1.4.9 Block Diagram.

Figure 3 shows the field regulator block diagram.

### 1.5 TERMINAL VOLTAGE REGULATOR LOOP.

#### 1.5.1 Loop Criteria.

Design for a TVR loop of 10 [rad/sec].

#### 1.5.2 CEMF Voltage Block.

The constant  $K_v$  is the transfer function of the voltage block.  $K_v$  is considered at top speed. It is the ratio between the nominal armature voltage and weak field.

$$K_v = V_{arm} / I_{wf} .$$

From the motor data sheet:

$$V_{arm} = 700 \text{ [volts]}$$

$$I_{wf} = 136 \text{ [Amps]} ,$$

then  $K_v$  is:

$$K_v = 5.14 \text{ [Volts/Amp]}.$$

#### 1.5.3 Field Regulator Block.

The field regulator as a whole will deliver full field current for 10 [Volts] input reference, with a response of 20 [rad/sec]. Its transfer function is:

$$T = \frac{I_{ff} / 10}{1 + s / 20}$$

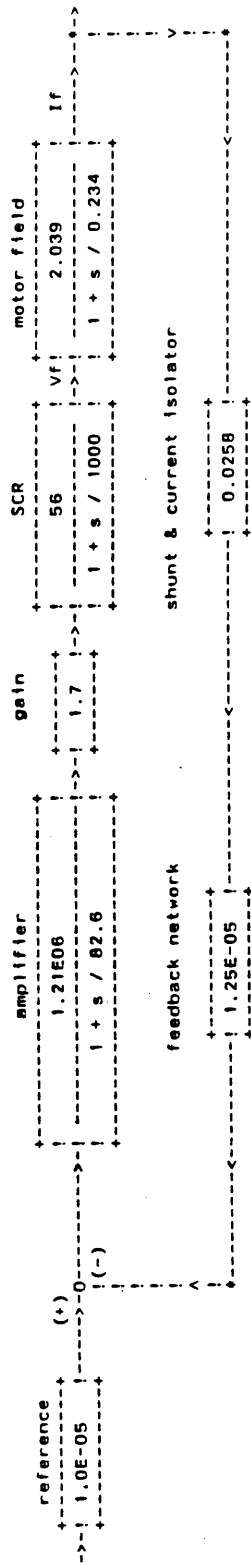


Figure # 3. Field Regulator Block Diagram.

From the motor data sheet,  $I_{ff}$  is equal to 310 [Amp],  
then

$$T = \frac{31}{1 + s / 20}$$

#### 1.5.4 Terminal Voltage Regulator Amplifier.

The gain is 1.67, when the TVR gain potentiometer is in the middle position.

$$G = 1.67$$

The transfer function of the rest of the amplifier with its associated components is:

$$T = \frac{1 + s * C1 * R15}{s * C1} .$$

A time constant  $C1 * R15$  equal 0.05, will provide a lead at 20 [rad/sec] to cancel the 20 [rad/sec] field regulator lag.

The transfer function is:

$$T = \frac{1 + s / 20}{s * C1} .$$

#### 1.5.5 TVR Reference Block.

A reference of 10 [Volts] to the regulator will produce  $3.65E-05$  [Amp] into the amplifier summing junction.

$$T = 3.65E-06$$



1.5.6 Voltage Isolator And Filter Block.

With 700 [Volts] in armature, the NVIA card gives 7.6 [Volts] output.

The ripple filter as a double pole at 454 [rad/sec].

The transfer function is:

$$T = \frac{1.09E-02}{(1 + s / 454) ** 2}$$

1.5.7 Steady State Feedback Block.

Its transfer function is:  $T = 4.80E-06$  [Siemens].

1.5.8 Rate Feedback Block.

The rate feedback network transfer function is:

$$T = \frac{G1 * s * C2 * 100}{(1 + s * (R12 + Rth) * C2) * 274}$$

where  $G1 = 0.5$ , is the rate gain potentiometer adjustment.

A lag at 10 [rad/sec] is desired, then:

$$(R12 + Rth) * C12 = 0.1$$

$Rth$ , a Thevenin of several resistors, is approximately equal to 2.5 [kOhms].

Plugging values, it yields:

$$T = \frac{9.12E-02 * s * C2}{1 + s / 10} .$$

## 1.5.9 Regulator Calculation.

To obtain 10 [rad/sec] voltage response, the forward path gain will cross the reciprocal of the feedback path gain at that frequency, considering the feedback without lead lag compensation.

$$H = 1.085E-02 * 4.78E-06$$

$$H = 5.1863E-08$$

The reciprocal is:

$$1 / H = 1.928E07 .$$

The forward path gain for frequencies around 10 [rad/sec] is:

$$G = \frac{1.67 * 31 * 5.14}{s * C1}$$

$$G = \frac{2.6609E02}{s * C1}$$

For s equal to 10 [rad/sec] and G equal to 1.928E07 , the value of C1 is:

$$C1 = 1.5 \text{ [microFar]}$$

The regulating transfer function is:

$$T = \frac{6.666E05 * (1 + s / 20)}{s}$$

To produce the feedback lead at 5 [rad/sec], the steady feedback crosses the rate feedback response at this frequency.

For frequencies around 5 [rad/sec] ,

$$H_{rate} = 0.18248 * s * C2$$

and  $H_{dc} = 4.78E-06$  ,

then C2 value is 5 [microFar].

The rate feedback block transfer function is:

$$T = \frac{s * 1.825E-06}{1 + s / 10}$$

#### 1.5.10 Block Diagram.

Figure 4 shows the terminal voltage regulator block diagram.

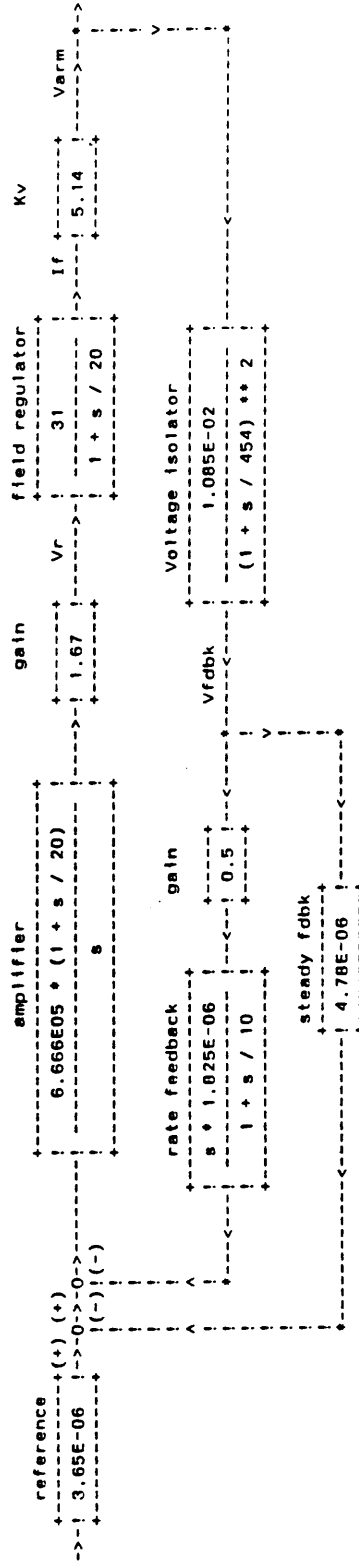


Figure # 4. Terminal Voltage Regulator Block Diagram.

## TRANSITION MATRIX APPLICATION.

### 2.1 INTRODUCTION.

The analysis of the system at speed range below base speed is done using the transition matrix method.

Only the current regulator and speed regulator are involved below base speed, torque and speed are produced changing armature voltage with a fix full field.

### 2.2 CURRENT REGULATOR ANALYSIS.

#### 2.2.1 State Variables.

To apply the transition matrix method, first the state variables of the system need to be defined. The transfer functions of the different blocks are algebraically manipulated to get only expressions of poles and/or constants. The block diagram will have, after this transformation, gain paths, integrator paths and addition nodes.

### 2.2.2 Simplified Current Regulator Rate Loop.

The current regulator rate loop of figure 1 is simplified as in figure 5, cancelling the zero at 1694 [rad/sec] in the amplifier with the pole at 1667 [rad/sec] in the feedback, and the pole at D.C. in the amplifier with the zero at D.C. in the feedback.

Splitting the amplifier in two parts and moving the addition node for the current rate feedback, it yields the simplified block diagram of figure 5.

### 2.2.3 Algebraic Operation.

A first algebraic operation is done to express the poles and zeros with a term in s.

From figure 5, the result is figure 6.

To simplify the block transfer functions to terms of 1/s or constants, it is now a straight forward procedure.

For example, the amplifier block expression is transformed as follow:

$$T = \frac{5.319E06 (342 + s)}{(25.6 + s)}$$

$$T = 5.319E06 * \left( \frac{25.6 + s}{25.6 + s} + \frac{316.4}{25.6 + s} \right)$$

$$T = 5.319E06 * \left( 1 + \frac{316.4}{25.6 + s} \right)$$

The pole at 25.6 [rad/sec] will be considered as a

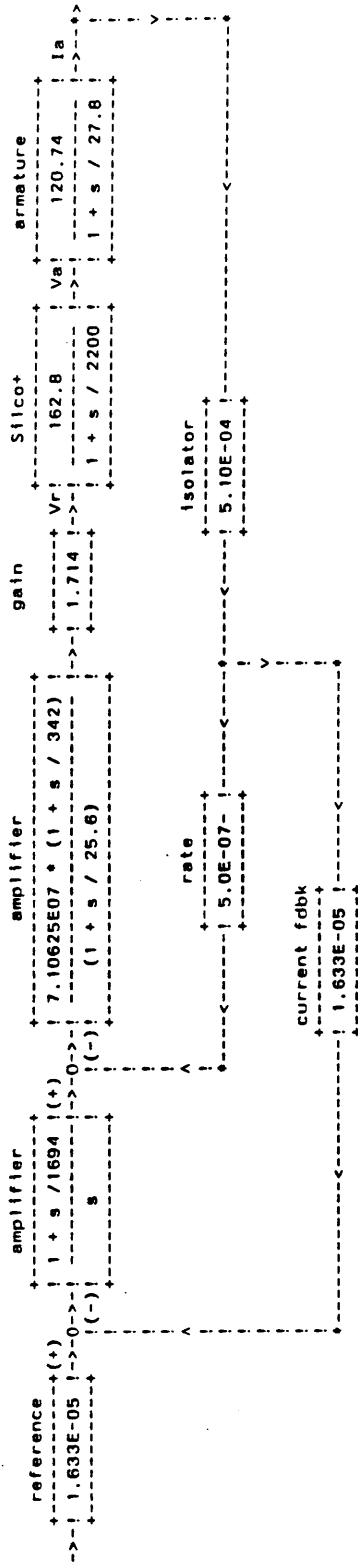


Figure # 5. Simplified Current Rate Loop Diagram.

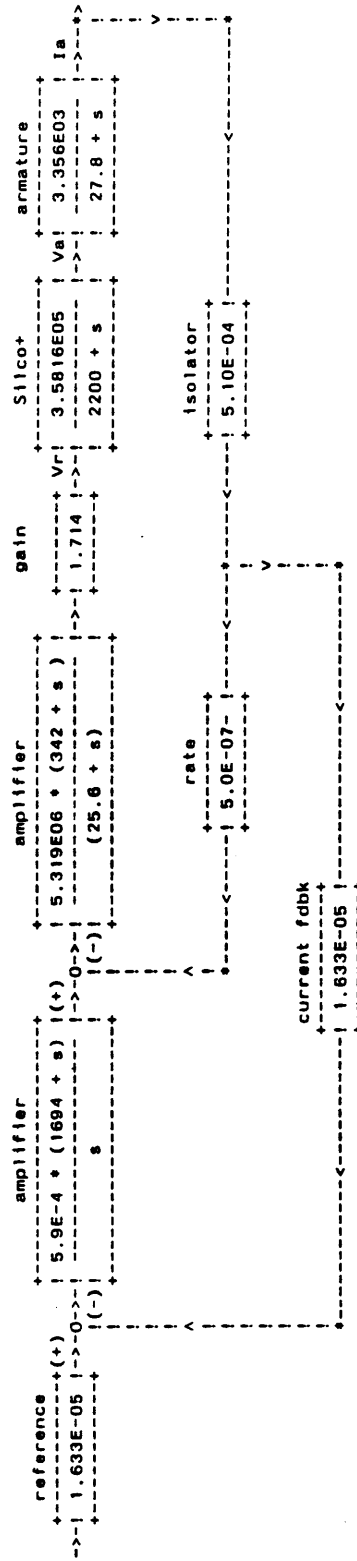
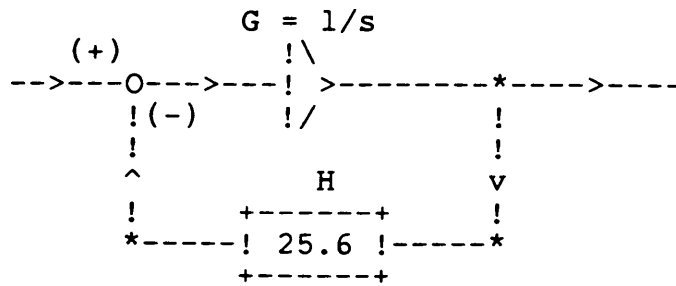


Figure #6. Current Reg. Block Diagram. Term in s.



negative feedback into the integrator.



$$T = \frac{G}{1 + H * G}$$

$$T = \frac{1}{25.6 + s}$$

The figure 7 was developed following this procedure.

#### 2.2.4 Transition Matrix.

The state variables are indicated in figure 7. Some of them have physical meaning, like X1 is the armature current, X2 is the output of the SILCO+ (TM) converter and X3 is the output of the regulators and input to the converter.

The state variable equation is:

$$\begin{matrix} \dot{X1} & = & -27.8 X1 & + & 3.3566E03 X2 & + & 0 X3 & + & 0 X4 & + & U1 \\ \dot{X2} & = & -8.489E02 X1 & + & -2200 X2 & + & 1.942E08 X3 & + & 5.531E15 X4 & + & U2 \\ \dot{X3} & = & -1.383E-03 X1 & + & 0 X2 & + & -25.6 X3 & + & 9.010E09 X4 & + & U3 \\ \dot{X4} & = & -4.914E-12 X1 & + & 0 X2 & + & 0 X3 & + & 0 X4 & + & U4 \end{matrix}$$

The augmented expression is, with U1 equal X5:

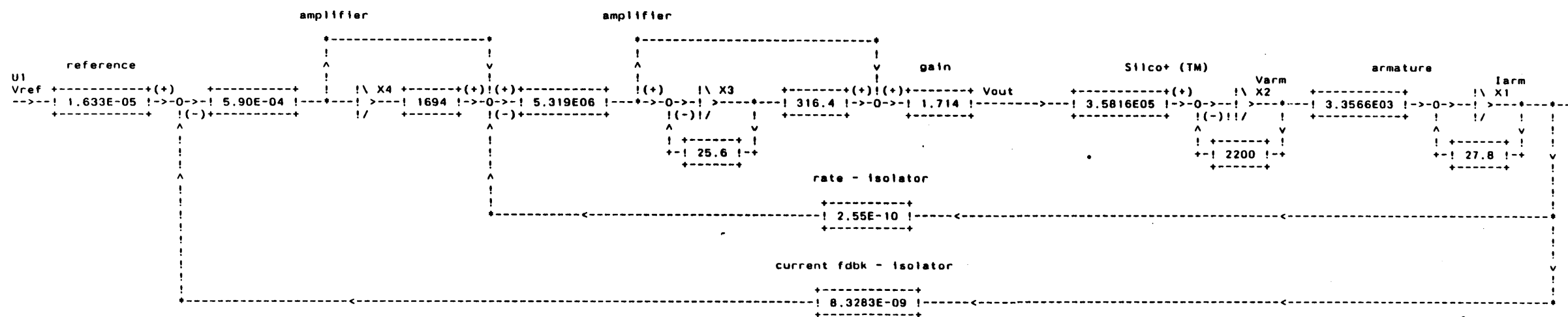


Figure #7. Current Regulator State Variables.

!X1!	!	-27.8	3.3566E03	0	0	0	!	!X1!
!X2!	!	-8..489E02	-2200	1.942E08	5.531E15	3.146E04!	!	!X2!
!X3!	=	!-1.383E-03	0	-25.6	9.01E09	5.125E-02!	*	!X3!
!X4!	!	!-4.914E-12	0	0	0	9.635E-09!	!	!X4!
!X5!	!	0	0	0	0	0	!	!X5!

### 2.2.5 Time Response.

To simulate the time response to a step input, the initial conditions are:

[0 0 0 0 3.636].

An input of 3.636 [volts] will call for the nominal output current.

In the real system many constraints will distort the response if the step is large, like maximum amplifiers voltage of 11.5 [volts], maximum current rate of 20 [unit/sec], and maximum converter output voltage of 840 [volts].

The step applied is very large, but not limits are imposed to the model.

The state equation is solved through the transition matrix.

The program Transition shown in appendix 1 is used to get the transition matrix and time response. Its output table is shown in appendix 2.

The program in appendix 3 creates a graphic, from the table, which is shown in figure 8.

The response tends to reach its final value of 7100

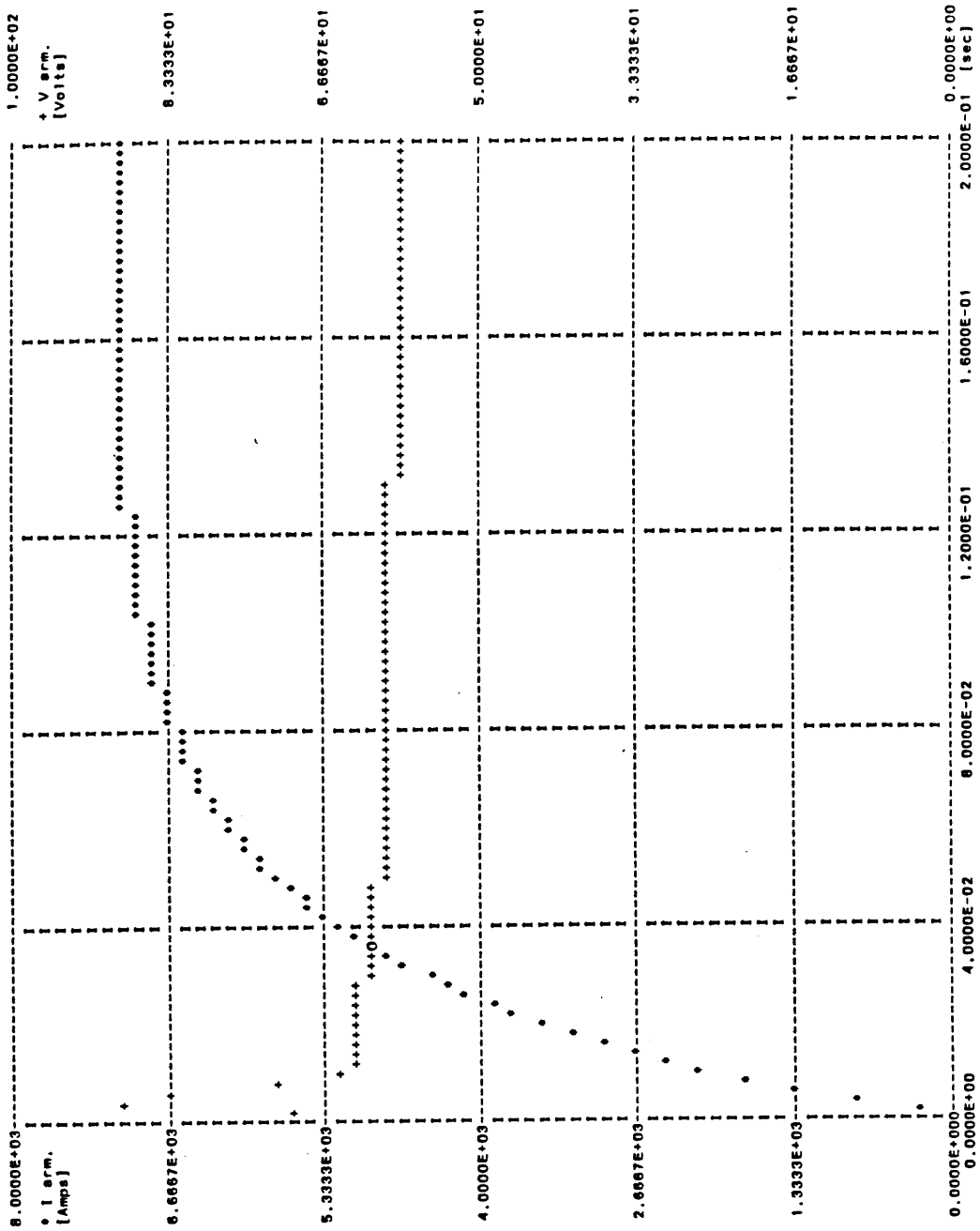


Figure #8. Current Regulator Response to a Step Input.

[Amps], with a speed of 30 [rad/sec].

### 2.2.6 Rate Response.

To see the action of the rate response, a sudden perturbation current is applied to a steady state zero condition.

This is done with a set of initial condition as:

[ 7100 0 0 0 0 ]

Using the program Transition and the program Graphic, the current behavior is shown in figure 9.

## 2.3 SPEED REGULATOR ANALYSIS.

### 2.3.1 Simplified Speed Regulator Loop.

The speed regulator loop of figure 2 is simplified as in figure 10, cancelling the pole at 30 [rad/sec] of the current regulator as a whole, with the zero at this frequency in the amplifier transfer function.

### 2.3.2 Speed Regulator State Variables.

The transfer functions of the block diagram of figure 10, are first manipulated to express poles and zeros with a term in  $s$ , yielding figure 11.

The next step, is to simplify to get terms of  $1/s$  or constants, giving the scheme of figure 12.

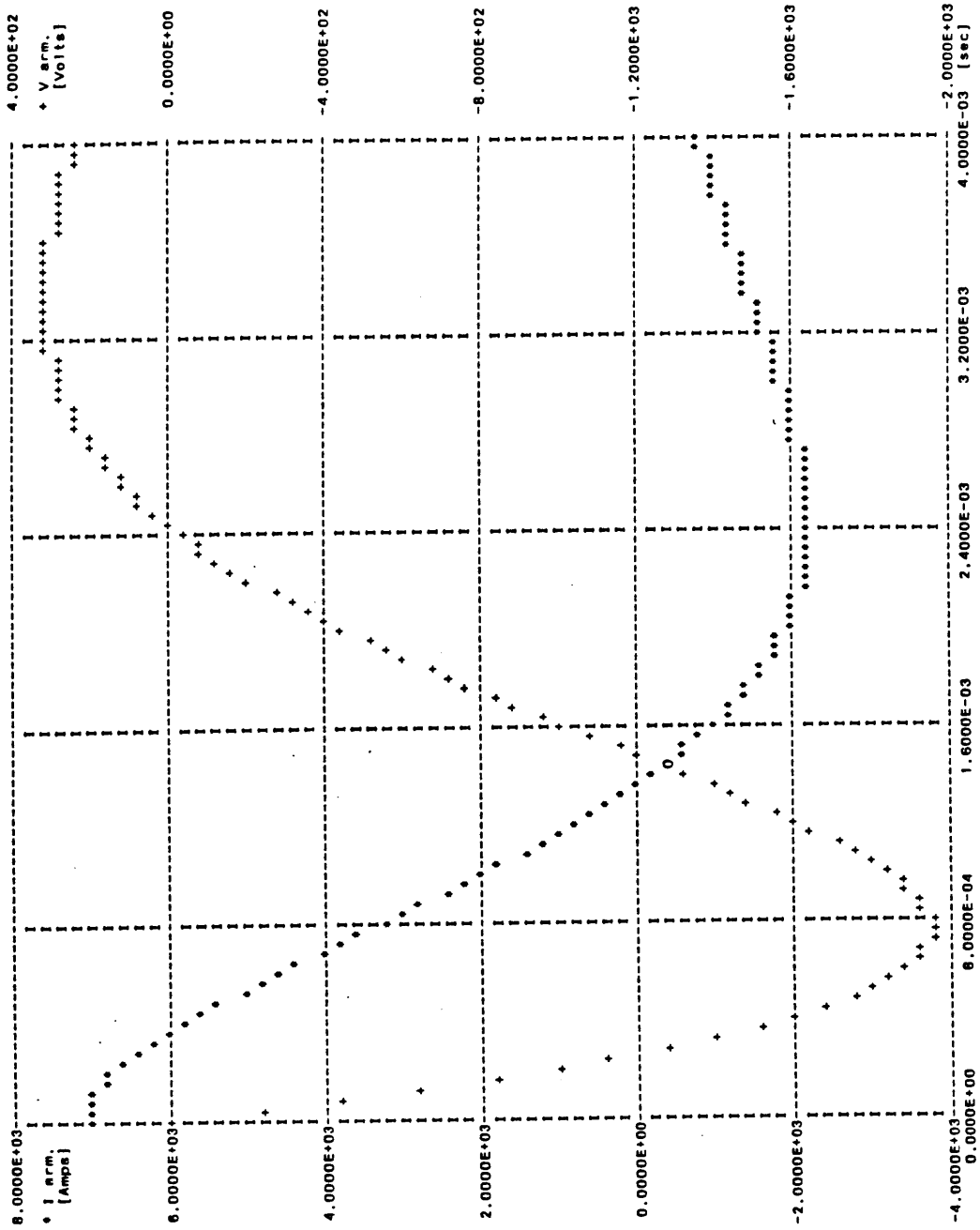


Figure #9. Current Regulator. Current Behavior After a Perturbance.

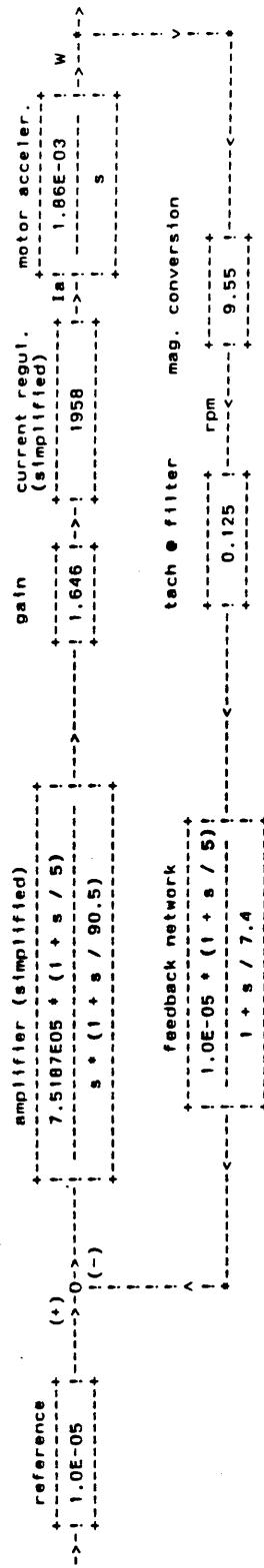


Figure # 10. Simplified Speed Regulator Loop.

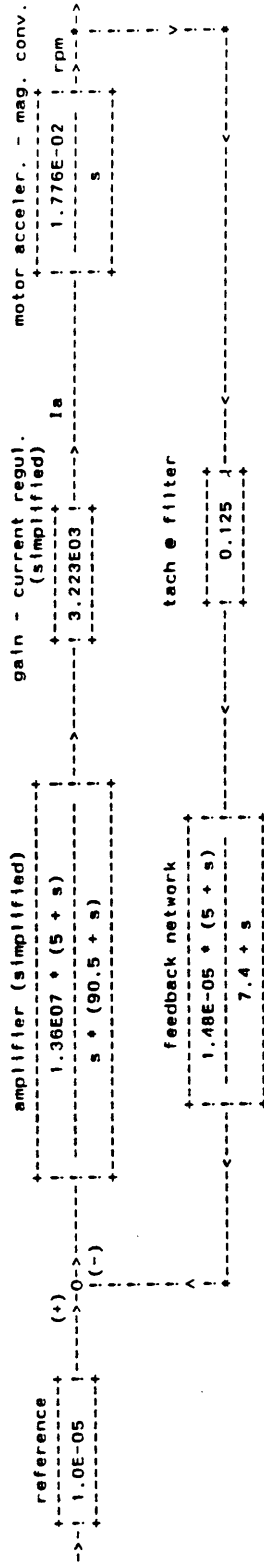


Figure # 11. Speed Regulator Loop with Term in s.



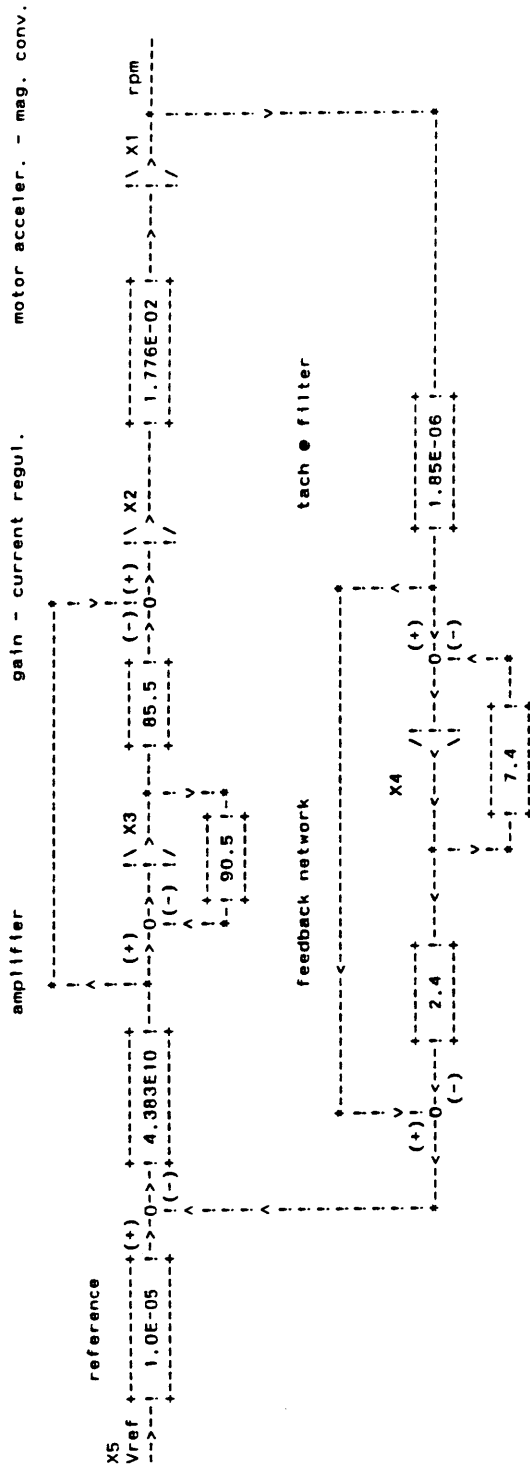


Figure # 12. Speed Regulator State Variables.

The state variables are shown in figure 12, where X1 is speed, X2 is the armature current and X5 is the input reference.

### 2.3.3 State Equation.

The augmented state equation for the speed regulator is derived also from figure 12, and it yields:

$$\begin{array}{r}
 \dot{X}_1 \\
 \dot{X}_2 \\
 \dot{X}_3 \\
 \dot{X}_4 \\
 \dot{X}_5
 \end{array}
 =
 \begin{array}{cccccc}
 0 & 1.776E-02 & 0 & 0 & 0 & 0 \\
 -8.109E04 & 0 & -85.5 & 1.05E11 & 4.383E05 & 0 \\
 -8.109E04 & 0 & -90.5 & 1.05E11 & 4.383E05 & 0 \\
 1.85E-06 & 0 & 0 & -7.4 & 0 & 0 \\
 0 & 0 & 0 & 0 & 0 & 0
 \end{array}
 \begin{array}{l}
 X_1 \\
 X_2 \\
 X_3 \\
 X_4 \\
 X_5
 \end{array}$$

### 2.3.4 Time Response.

The time response to a step input is simulated when considering the following initial conditions:

$$[0 \quad 0 \quad 0 \quad 0 \quad 5.0].$$

An input reference of 5.0 [volts] produces 40 [rpm], which is base speed.

Also in this case the step applied is very large, but not limits are considered in the model. It is not the case in the real system, where the current limits will interfere with the speed response if the step is large enough.

The time response is solved using the program Transition of appendix 1, which outputs the table shown in appendix

4.

Using the appendix 3 program to plot the results, it yields figure 13. The graph shows a time response of 10 [rad/sec].

## 2.4 FIELD REGULATOR ANALYSIS.

### 2.4.1 Field Regulator Loop.

The transfer functions of the block diagram of figure 3, are algebraically manipulated to express them with a term in  $s$ , yielding the block diagram of figure 14.

From figure 14, more manipulation is done to get blocks in  $1/s$  or constants.

See figure 15, where in addition the state variables are indicated.

### 2.4.2 State Equation.

From figure 15, also, the augmented state equation is derived:

$$\begin{array}{rcccccc}
 \dot{!X1!} & !-0.234 & 0.477 & 0 & 0 & ! & !X1! \\
 \dot{!X2!} & ! 0 & -1000 & 5.6E04 & 0 & ! & !X2! \\
 \dot{!X3!} = & !-54.825 & 0 & -82.6 & 1.7E03 & ! * & !X3! \\
 \dot{!X4!} & ! 0 & 0 & 0 & 0 & ! & !X4!
 \end{array}$$

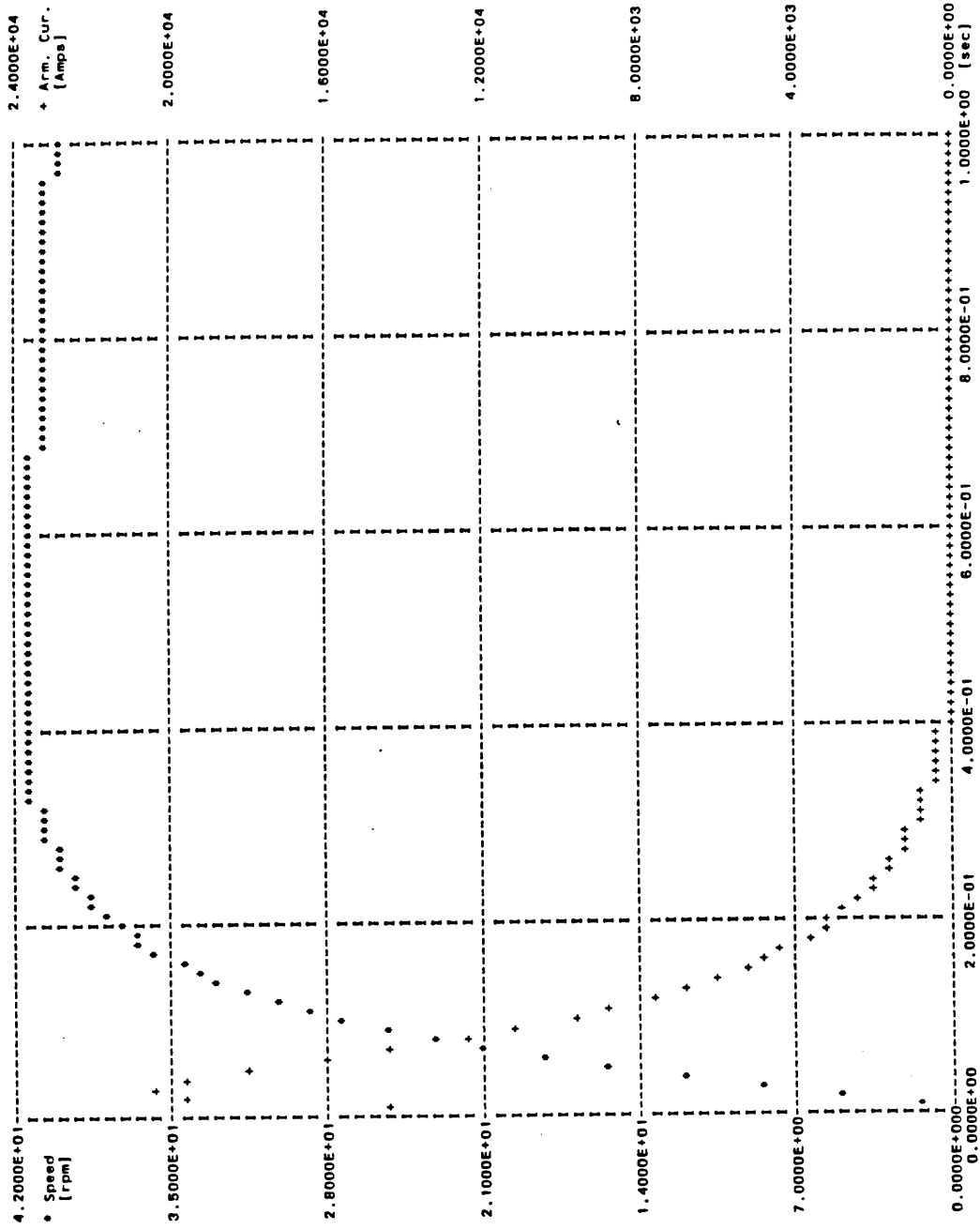


Figure #13. Speed Regulator Time Response.

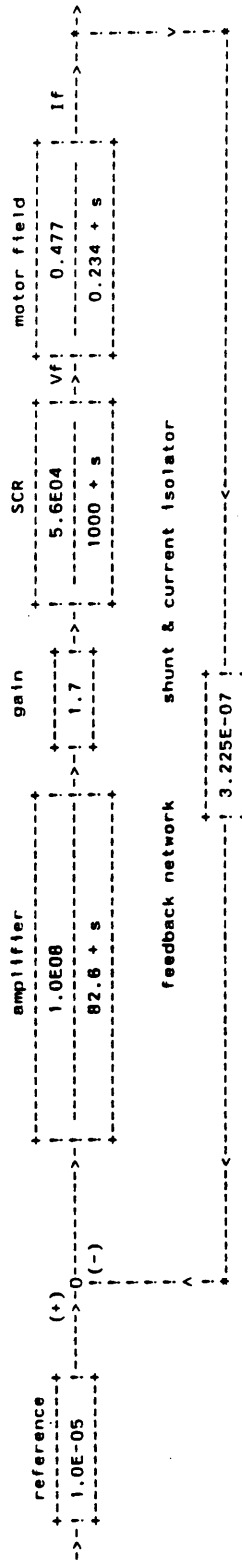


Figure #14. Field Regulator Block Diagram. Term in s.

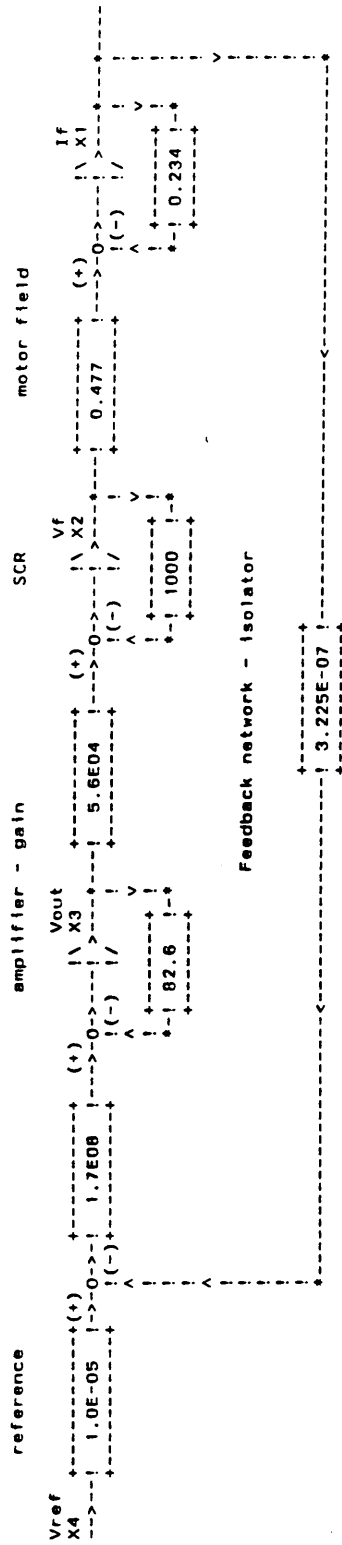


Figure #15. Field Regulator State Variables.

### 2.4.3 Time Response.

A step of 10 [Volts] is applied in the input reference, then the initial conditions are:

$$[0 \quad 0 \quad 0 \quad 10]$$

The step is large, but no limits exist in the model to modify the response.

The time response is solved with the program Transition of appendix 1.

The output table is in appendix 5. From the table, the curves of figure 16 are drawn by the program GRAPHIC of appendix 3.

The time response measured in the graphic is 16.7 [rad/sec].

## 2.5 TERMINAL VOLTAGE REGULATOR ANALYSIS.

### 2.5.1 Terminal Voltage Regulator Loop.

A simplified block diagram, departing from figure 4, it is the result of cancelling the pole at 20 [rad/sec] of the field regulator as a whole, with the zero at the same frequency in the TVR amplifier. This simplified diagram is shown at figure 17.

The expressions of the transfer functions of figure 17, are algebraically manipulated to yield figure 18.

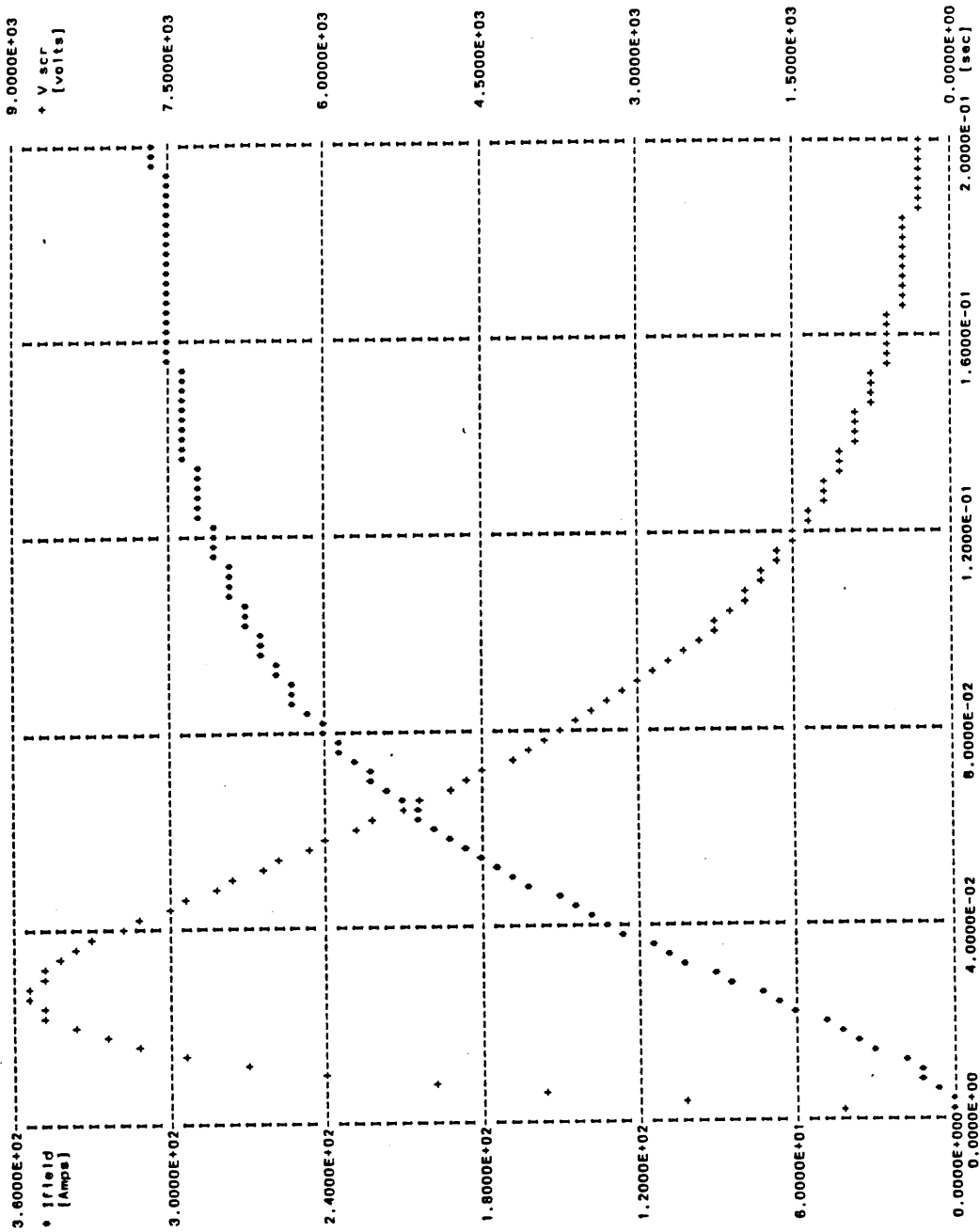


Figure #16. Field Regulator Step Time Response.





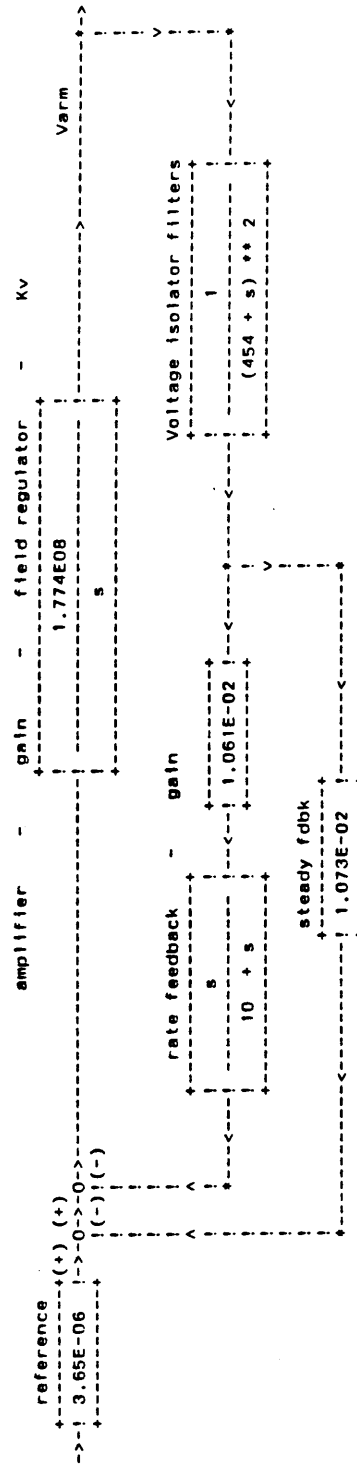


Figure #18. Terminal Voltage Regulator.Simplified Block Diagram with Terms in s.

### 2.5.2 State Equation.

To simplify the equation, the tachometer filter double pole at 454 [rad/sec] is not considered. Also, to get the appropriated response, the rate feedback is not needed, then it is eliminated from the state equation.

From figure 18, with these further simplifications, more manipulation is done to get blocks in 1/s or constants. The results is in the diagram of figure 19.

From this scheme, the augmented state equation is calculated:

$$\begin{matrix} \dot{X}_1 \\ \dot{X}_2 \end{matrix} = \begin{bmatrix} -9.239 & 6.475E02 \\ 0 & 0 \end{bmatrix} \begin{matrix} X_1 \\ X_2 \end{matrix}$$

### 2.5.3 Time Response.

A step of 10 volts reference is applied in the input. The initial conditions are:

$$\begin{matrix} 10 \\ 10 \end{matrix}$$

The step is large, but not limit in the model affects the the time response.

The time response is solved with the program TRANSITION of appendix 1, and the output table is in appendix 6.

With the help of the program GRAPHIC of appendix 3, the table is plotted in figure 20.

The time response, measured in figure 20, is 10

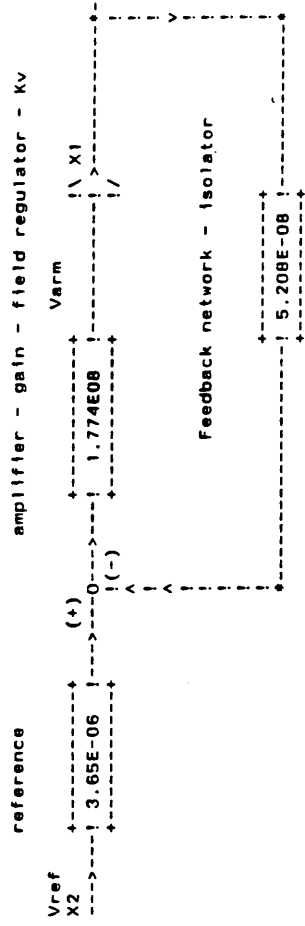


Figure #19. Terminal Voltage Regulator State Variables.

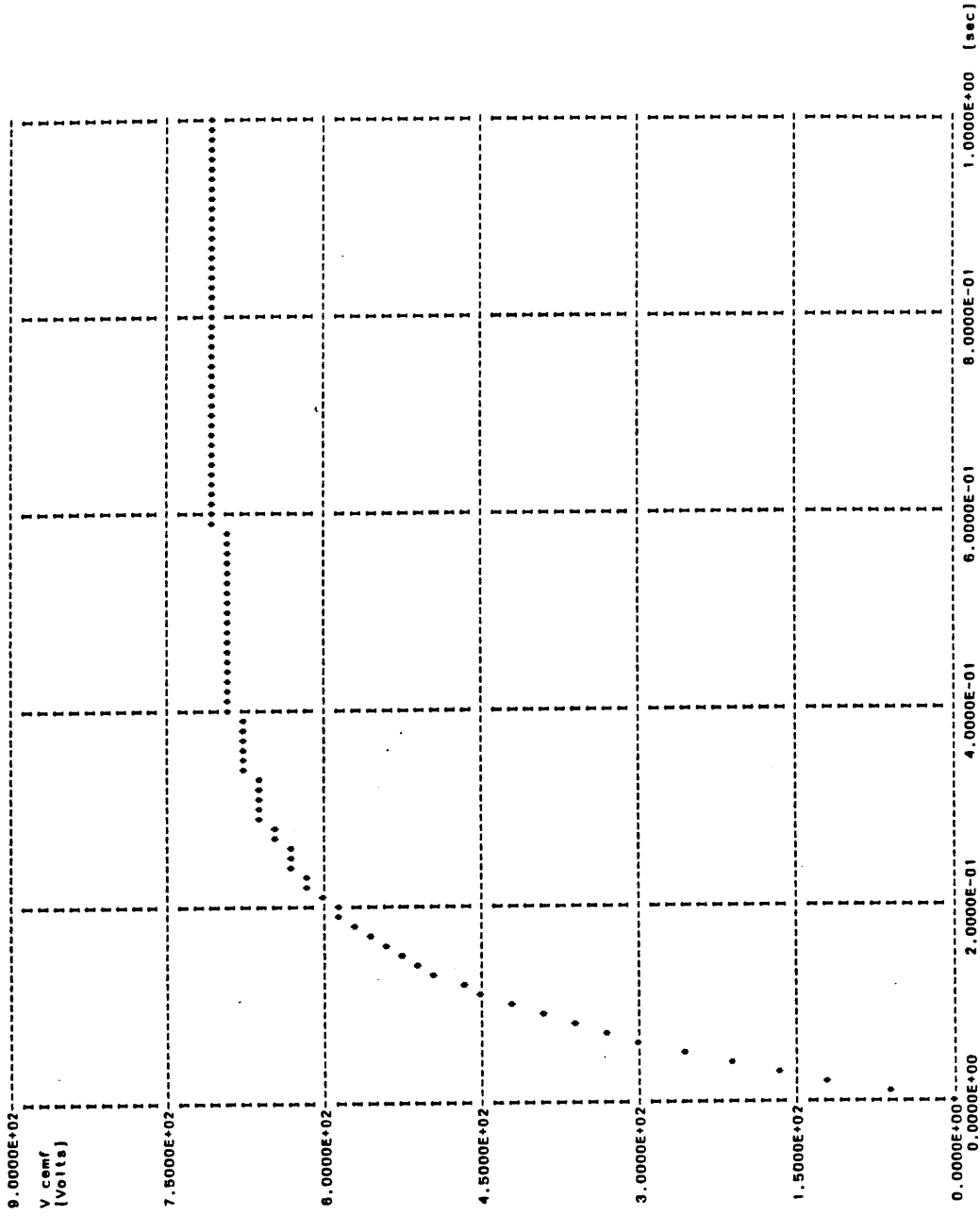


Figure #20. Terminal Voltage Regulator Response.

[rad/sec]. This is the desired value, but it is only reached at top speed, 80 [rpm]. At base speed, 40 [rpm], the response is half slower. This problem will be considered later in the study above base speed.

## 2.6 ALL REGULATORS.

### 2.6.1 State Equation.

Now that the four regulators have been separately tested for stability and response, the loops are integrated in the whole system.

Below base speed, the field is kept constant, then only the speed regulator and current regulator play roles.

Putting together the block diagrams of both regulators it yields the scheme shown in figure 21.

In this diagram, the state variables are define and also from it, the state equation is derived.

To help in the calculation of the state equation matrix, the action of the variables in key points, is indicated in the diagram.

The augmented state equation is shown in figure 22.

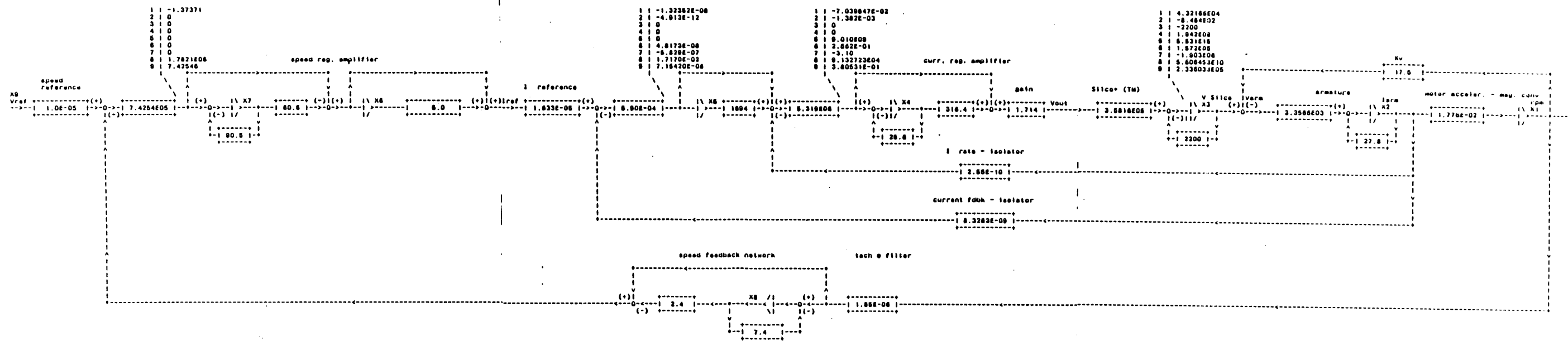


Figure #21. Below Base Speed State Variables.





### 2.6.2 Time Response.

The response to a speed reference step is desired, then the initial conditions are:

$$[0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 5]$$

The program TRANSITION of appendix 1 gives the time response output table shown in appendix 7. The program GRAPHIC of appendix 3 plots the response shown in figure 23.

### 2.6.3 Conclusion.

Below base speed, the system looks stable and the response of 10 [rad/sec] is correct.

Later, the iteration method will be compared to the results found here by the transition matrix.

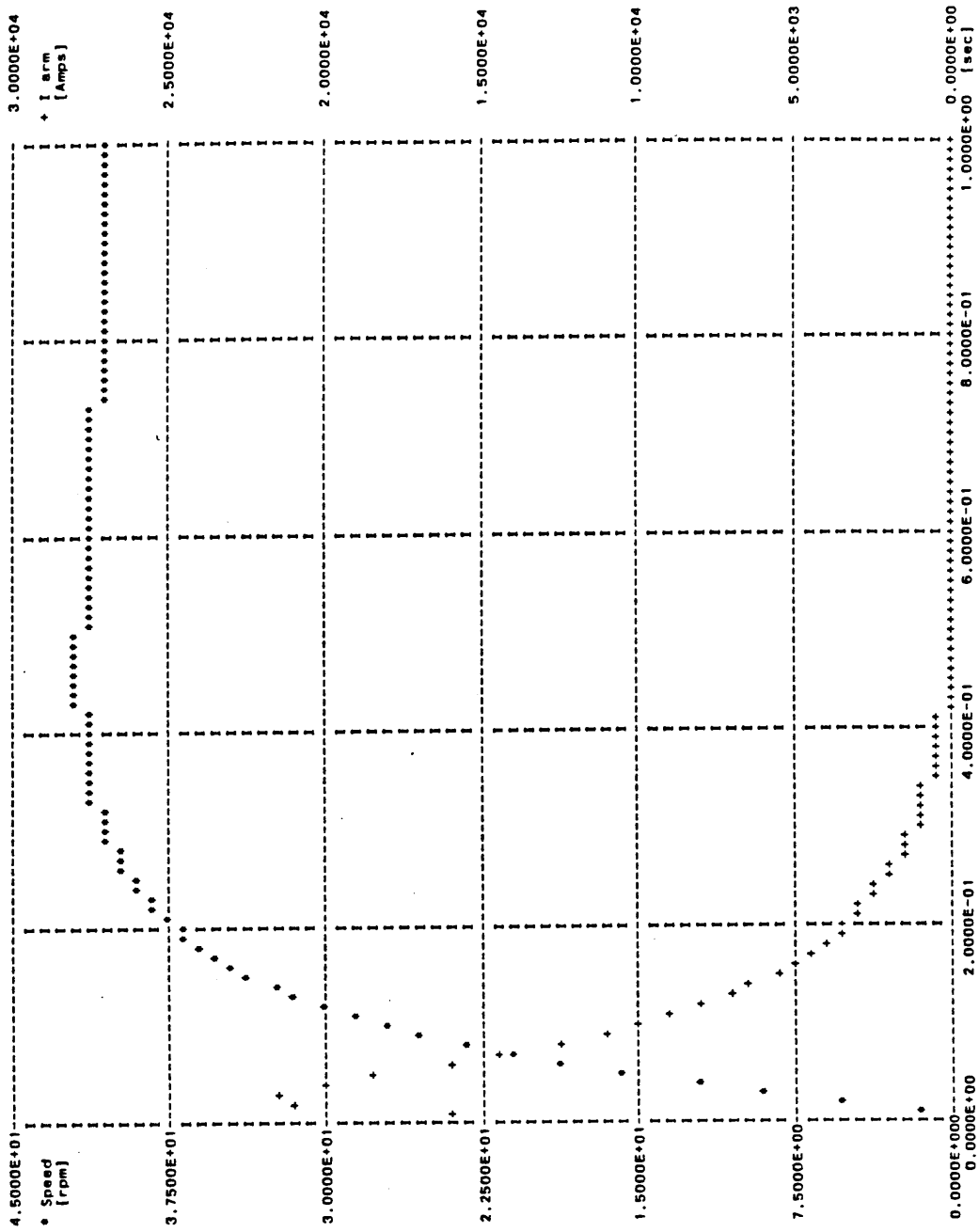


Figure #23. System Below Base Speed. Response to a Speed Input Step.





Multiplying in the second term, it yields

$$\begin{array}{r}
 \dot{X}_1 \quad ! \quad 0 \quad 1.776E-02 \quad 0 \quad ! \quad X_1 \\
 \dot{X}_2 = ! -5.874E04 \quad -27.8 \quad 3356.6 ! * X_2 + \\
 \dot{X}_3 \quad ! \quad 0 \quad 0 \quad -2200 ! \quad X_3 \\
 \\
 + 3.5816E05 * ! 0 \quad 0 \quad 0 ! X_1 \\
 \quad \quad \quad \quad ! 0 \quad 0 \quad 0 ! * X_2 \\
 \quad \quad \quad \quad ! F_1 \quad F_2 \quad F_3 ! \quad X_3
 \end{array}$$

To simplify the expressions, the factor 3.5816E05 is included in the feedback value.

The matrix B is now:

$$B = \begin{array}{ccc}
 ! 0 & 0 & 0 ! \\
 ! 0 & 0 & 0 ! \\
 ! 1 & 0 & 0 !
 \end{array}$$

and it is equivalent to bring the feedbacks to the summing point of the 2200 negative feedback in the figure 24.

After the problem is solved, the feedbacks need to be readjusted to keep the scheme of figure 24.

Now the differential equation is:

$$\begin{array}{r}
 \dot{X}_1 \quad ! \quad 0 \quad 1.776E-02 \quad 0 \quad ! \quad X_1 \\
 \dot{X}_2 = ! -5.874E04 \quad -27.8 \quad 3356.6 ! * X_2 \\
 \dot{X}_3 \quad ! \quad F_1 \quad F_2 \quad F_3 - 2200 ! \quad X_3
 \end{array}$$

The cost function is:

$$J = \frac{1}{2} X_f^T H X_f + \int_{T_0}^{T_f} \frac{1}{2} [ X^T Q X + U^T R U ] dt$$

Running the program RICCATI listed in the appendix 8 for different costs, the feedback matrices are solved.

For each case, the time response was found with the program TRANSITION of appendix 1.

The considered initial condition is:

$$[ 40 \quad 0 \quad 0 ],$$

which means a speed perturbation of base speed value.

The system stops in different ways, according with the considered cost factors.

### 3.3 SYSTEM WITHOUT FEEDBACK.

The thyristor converter keeps zero voltage in its output.

The motor stops by dynamic braking after a perturbation is applied.

The time response printout is in appendix 9 and its plot in figure 25.

The motor overshoots in the other direction till finally stops.

### 3.4 SYSTEM WITH CRITICALLY DUMPED RESPONSE.

After many tries varying the cost factors, a critically damped ,and fast case was found.

The cost parameters are:

$$H = \begin{bmatrix} !1000 & 0 & 0! \\ ! 0 & 0 & 0! \\ ! 0 & 0 & 0! \end{bmatrix}, \quad Q = \begin{bmatrix} !1000 & 0 & 0! \\ ! 0 & 1 & 0! \\ ! 0 & 0 & 10! \end{bmatrix}$$

and  $R = 0.0003$

In other words, H penalizes the final speed, Q penalizes the variables trying to compensate the fact that a per unit magnitude is not employed, and R controls the feedback gain.

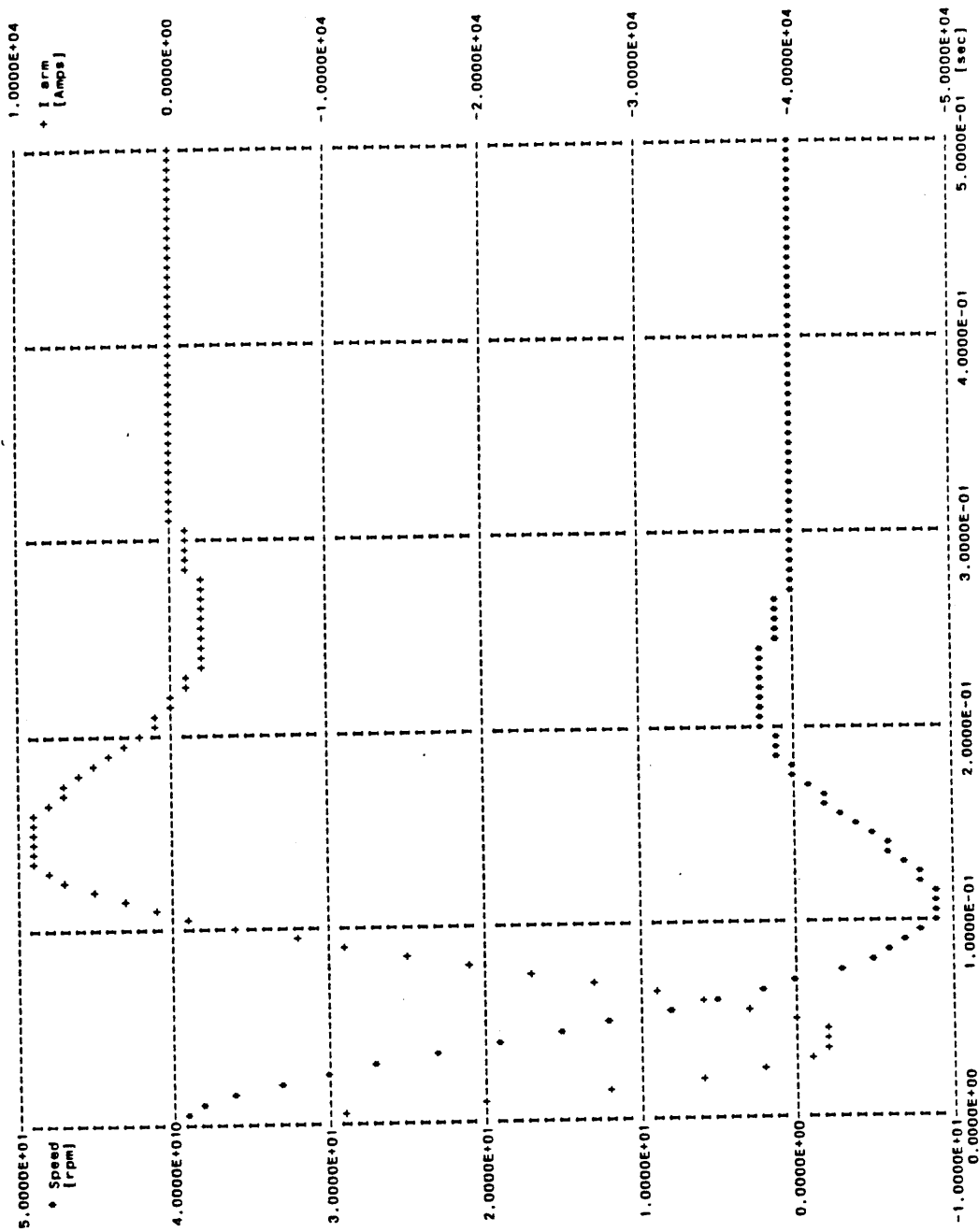


Figure #25. System Without Feedback. Dynamic Braking to a Perturbation.

The output of the program RICCATI is in part shown in appendix 10. From it the solution of the equation, the feedback matrix, is shown in time. Figure 26 has F1 and F2, and figure 27 shows F3.

F reaches steady values for action taken sufficient ahead of the final time.

These steady values are the ones considered for the feedback of the system. In this case the feedback matrix is:

$$F = [1052.69 \quad -41.7618 \quad -70.1737]$$

Running the program TRANSITION, its output is shown in appendix 11 and the graph is shown in figure 28.

Now that the solution of the system was found, the feedback matrix will be divided by  $3.5816E05$ , to be consistent with the scheme of figure 24.

$$F = [2.93916E-03 \quad -1.166E-04 \quad -1.9593E-04]$$

### 3.5 CONCLUSION.

The Optimal Control design method, in contraposition to the Bode Method, does not need the inner loop concept, and all feedbacks are calculated at ones.

The advantage is that the relation of speed between loops does not need to be considered, giving eventually a faster response.

In figure 28, the speed response is only slightly faster



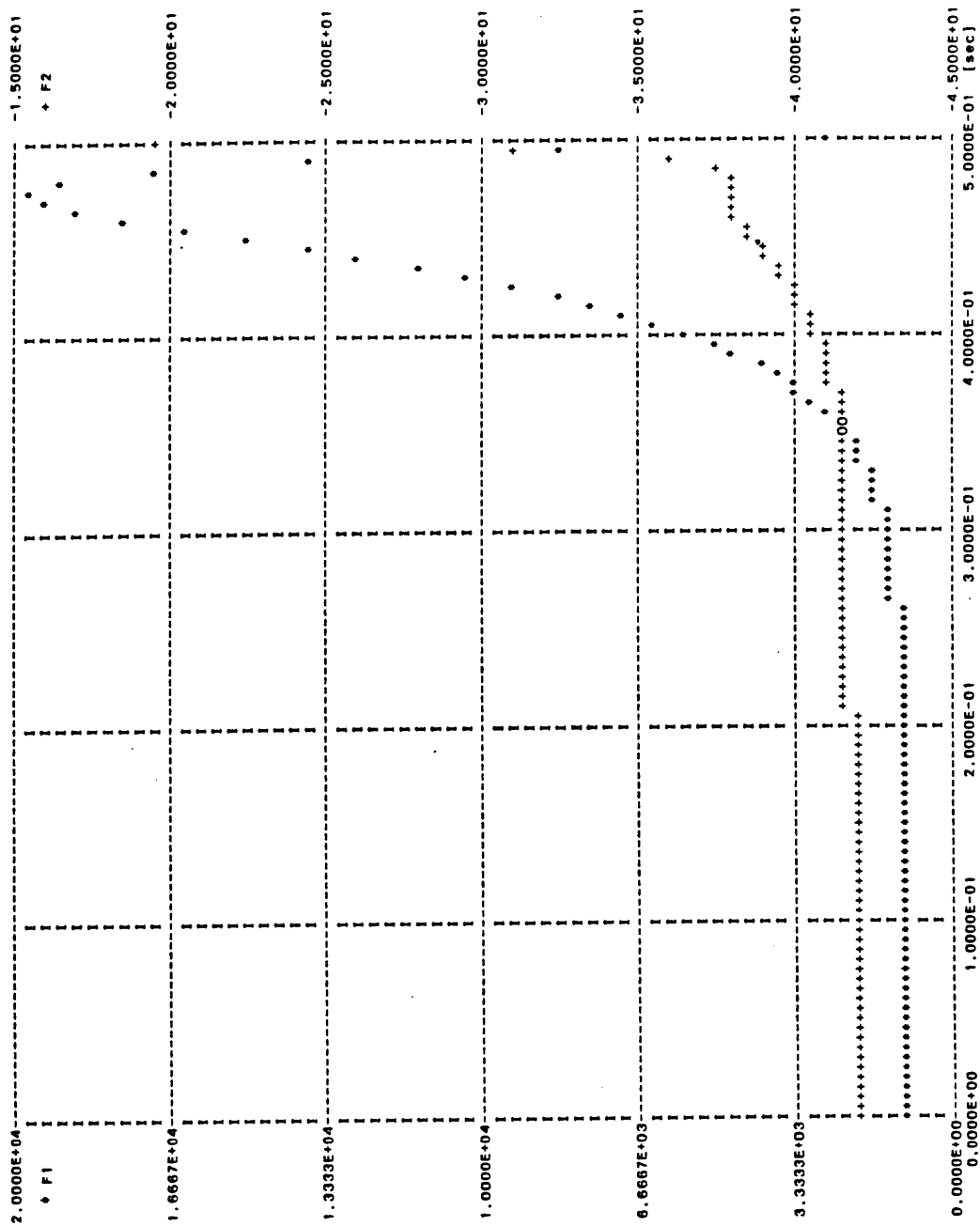


Figure #26. Values of F1 and F2.

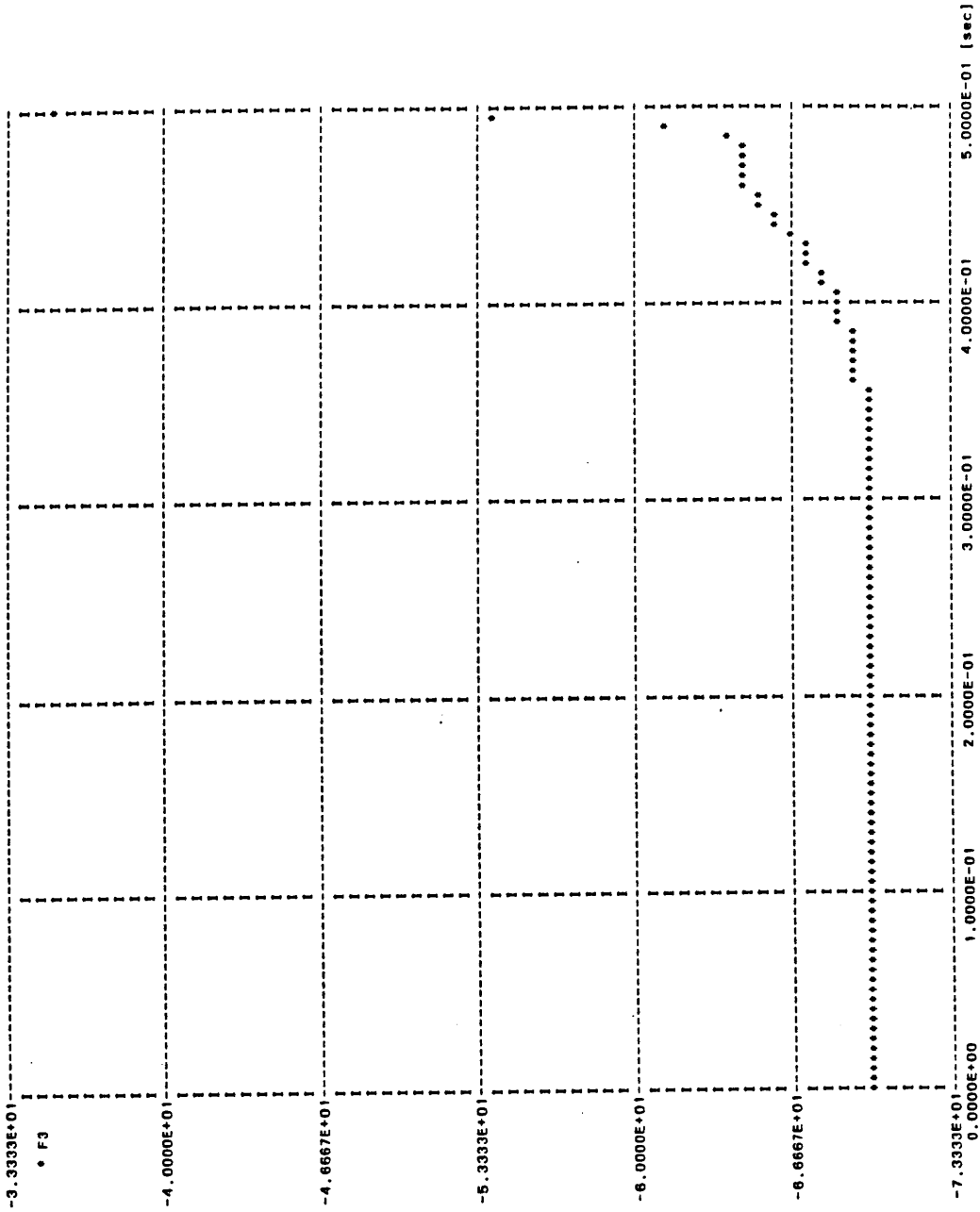


Figure #27. Values of F3.

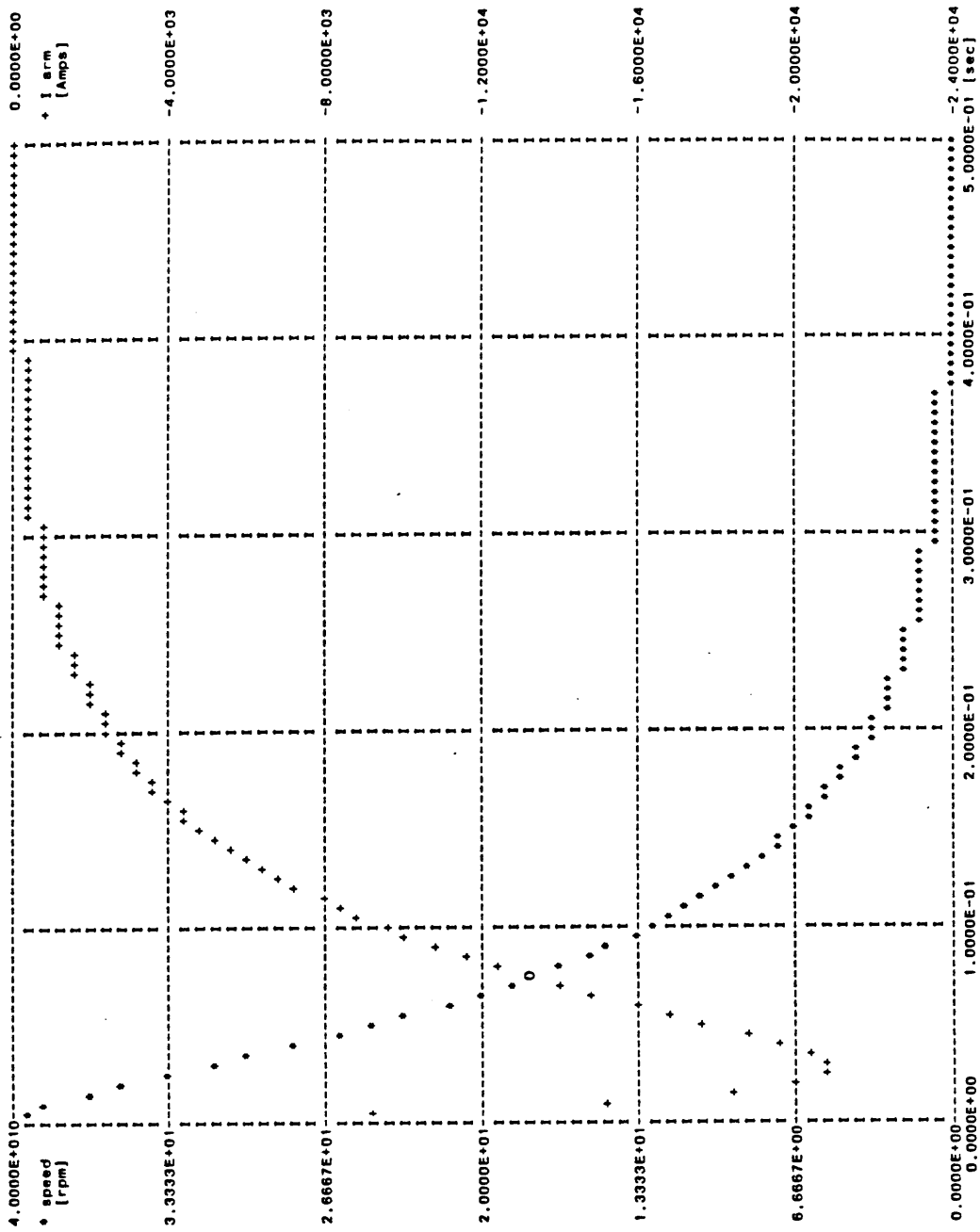


Figure #28. System with Optimal Control. Response to a Perturbation.

than 10 [rad/sec], so no significant improvement was made.

On the other hand, limits in the network, like armature voltage limits, rate current limits, current limits and speed limits, that in the classical configuration work independently in each loop, need to be reconsidered in a loop dependent situation.

Optimal Control design criteria, given by experience, are not yet available like for the old Bode Method.

For example one point discovered working in the example is: To penalize variables in an homogeneous way, a per unit system is more suited. On the other hand ranges and units start playing a role.

To reach the final solution, a try and tune procedure was followed, consuming a great deal of computer time. The Bode Method though, predicts the results.

## SYSTEM ABOVE BASE SPEED.

### 4.1 INTRODUCTION.

Above base speed, the armature voltage is kept at its nominal value of 700 [Volts] and the control of torque and speed is made decreasing the field.

The armature voltage is not clamped at its maximum value, instead all four regulators are working now. For example if an increase of speed is desired through the speed input reference, the speed regulator asks for current reference, the current regulator increases the voltage in the thyristor converter, generating more torque.

When the voltage regulator sees the armature voltage increment, it decreases the field through the field regulator.

This indirect action keeps control of speed response, current limits, current response, and current rate limits.

All these controls would disappear with a clamp armature voltage and it would be necessary to perform them with extra circuitry through the field alone.

When trying to express the state equation above base speed, it is found that the system is not linear. In three places variables depend of the product of other two.

The cemf. of the motor depends of the field current times revolutions.

The torque depends of armature current times field current. The speed regulator programming, just to compensate the previous factor is proportional to the reciprocal of the field current.

Having variables inside the state equation matrix, implies that the transition matrix needs to be recalculated continuously, consuming excessive computer time.

The impossibility to use the transition matrix method to model the system, forces to look for other approaches. An iteration method is then developed.

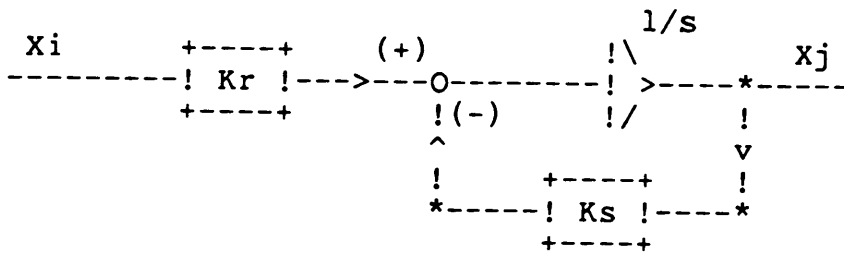
#### 4.2 ITERATION METHOD.

This iteration method is an original work.

It departures from the block diagram where transfer functions are constants or integrators. This scheme is inherited from the intention to express the state equation of the system.

More variables are defined to mechanize the procedure.

A subroutine is used to solve every time an immediate pole is found. This pattern in the scheme will be called "integrator cell". It has the following form:



In some cases  $K_r$  is equal to one, or  $K_s$  is equal to zero, but in general they will have any value.

Already  $X_j$  was a state variable, but  $X_i$  is an extra variable needed to call the subroutine.

More variables are defined after summing junctions others than the ones in the integrator cells, for examples, after big loops.

#### 4.3 BLOCK DIAGRAM.

In figure 29, all four regulators are tied together showing the system above base speed.

Variables are defined according with the previous concept and also constant transfer blocks are numbered.

#### 4.4 PROGRAM ITERATION.

The program ITERATION in Appendix 12 models the system.

To perform the iteration the calculation follows the direction of the signal flows.

Each variable shown in the diagram, will have three values to be used in the calculation. A bidimensional array of  $n$  by 3 define the variables.

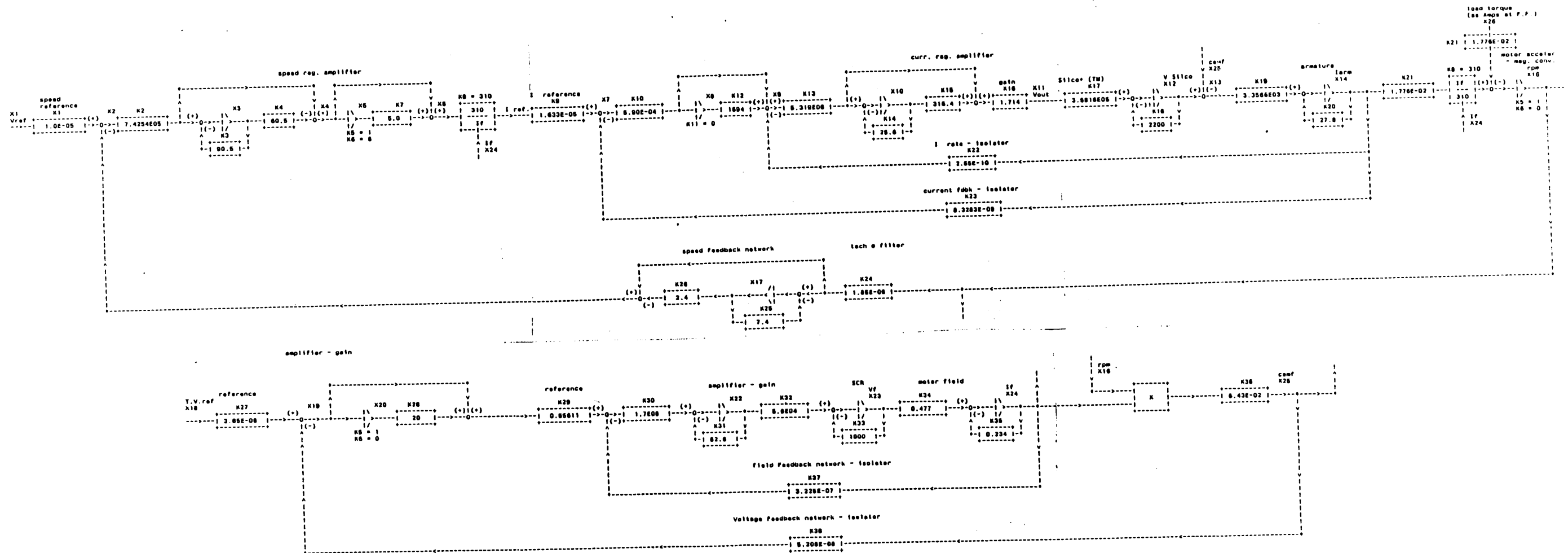


Figure #29. Above Base Speed State Variables.



Calculating the values for small time intervals,  $\Delta t$ ,  $X(j,1)$  is the initial value,  $X(j,3)$  is the result of the last iteration and  $X(j,2)$  is the result of the previous iteration.

When the difference between every  $X(j,3)$  and  $X(j,2)$ , for  $j$  equal 1 to  $n$ , is smaller than it is required, then the iteration is ended.

$X(j,2)$  after being updated by  $X(j,3)$ , will have the final value for the time increment.

For the next time interval,  $X(j,1)$  is updated with  $X(j,2)$ , and the routine is repeated.

There is an iteration counter for logging and to stop the program if the results do not converge due instability of the system.

The method works only if the system is stable and if the time intervals are small related to the time constants involved in the control.

#### 4.5 THE INTEGRATOR CELL.

The subroutine INTI listed in the appendix 12 solves the integrator cell.

It finds the output  $X(j,3)$  value; after an interval of time. Also it compares the result  $X(j,3)$  with the previous iteration result now call  $X(j,2)$ . If the difference is larger than it is tolerated, it sets a flag to proceed iterating.

Solving the integrator cell with a discrete time

expression, it yields:

$$X(j,3) = X(j,1) + \text{delta } T * \left[ \frac{(X(i,1) + X(i,2)) * Kr}{2} - \frac{(X(j,1) + X(j,3)) * Ks}{2} \right]$$

It uses a second order discrete approximation to represent the integration.

Some manipulation is done to reach the form used in the subroutine. The delta T increment will be called "T".

$$X(j,3) = X(j,1) - T/2 * X(j,1) * Ks - T/2 * X(j,3) * Ks + T/2 * (X(i,1) + X(i,2)) * Kr$$

$$X(j,3) = \frac{X(j,1) * (1 - T/2 * Ks) + (T/2 * (X(i,1) + X(i,2)) * Kr)}{1 + T/2 * Ks}$$

Notice that all the variables and coefficients have been declared COMMON variables and the subroutine call parameters are only their subindexes.

#### 4.6 ITERATION METHOD TEST.

Now that the iteration method is established, it is tested with the current regulator and speed regulator, which were already modelled by the transition method, to compare results.

The scheme of figure 30 has the variables and constant factors of the current regulator.

Using the program ITERATION of appendix 14, with the subroutine INTI of appendix 13, it yields the printout tables of appendix 15.

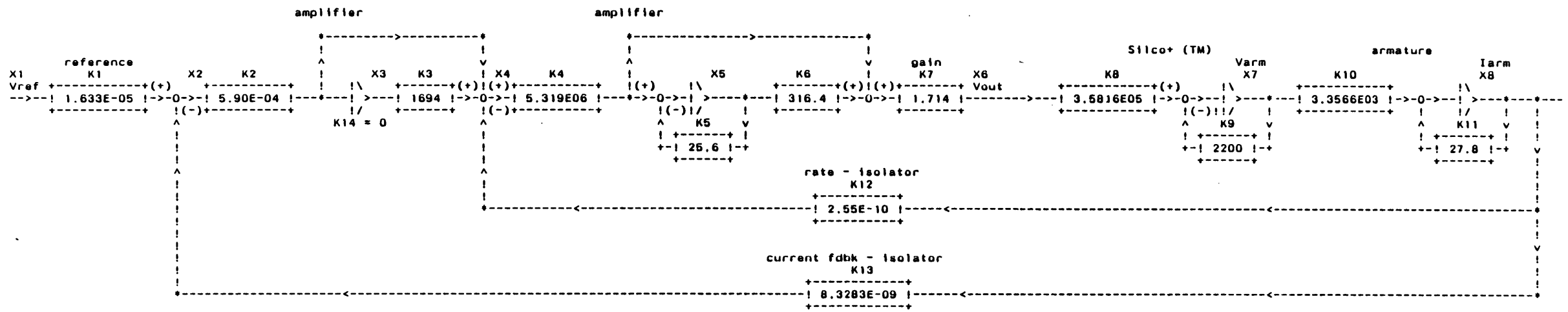


Figure #30. Current Regulator. Iteration Method.

From the tables the graphic of figure 31 is drawn.

Now comparing between:

figure 7 scheme is equivalent to figure 30  
scheme,

appendix 2 table is equivalent to appendix 15  
table,

figure 8 graph is equivalent to figure 31 graph.

Both methods get same results.

The iteration method is applied to the speed regulator  
from the scheme of figure 32, and the results are in  
appendix 16 and figure 33.

The comparison is done between:

figure 12 scheme is equivalent to figure 32  
scheme,

appendix 4 table is equivalent to appendix 16  
table,

figure 13 graph is equivalent to figure 33 graph.

Both method have same results. It gives confidence in  
the new iteration method.

#### 4.7 INCREASE LOAD.

The new tool is used to model the overall system, when  
load torque is changed from 50% to 100%, running 1% above  
base speed.

To get a steady state condition, at a certain speed,  
where to apply a step, the program ITERATION of appendix 12



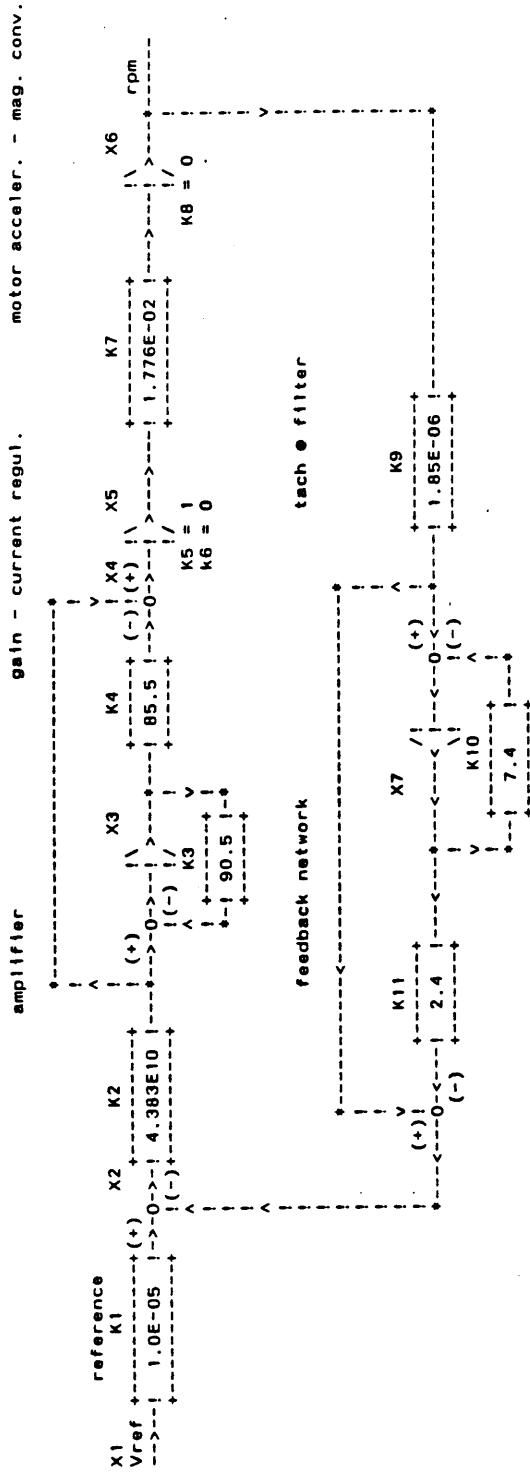


Figure # 32. Speed Regulator. Iteration Method.

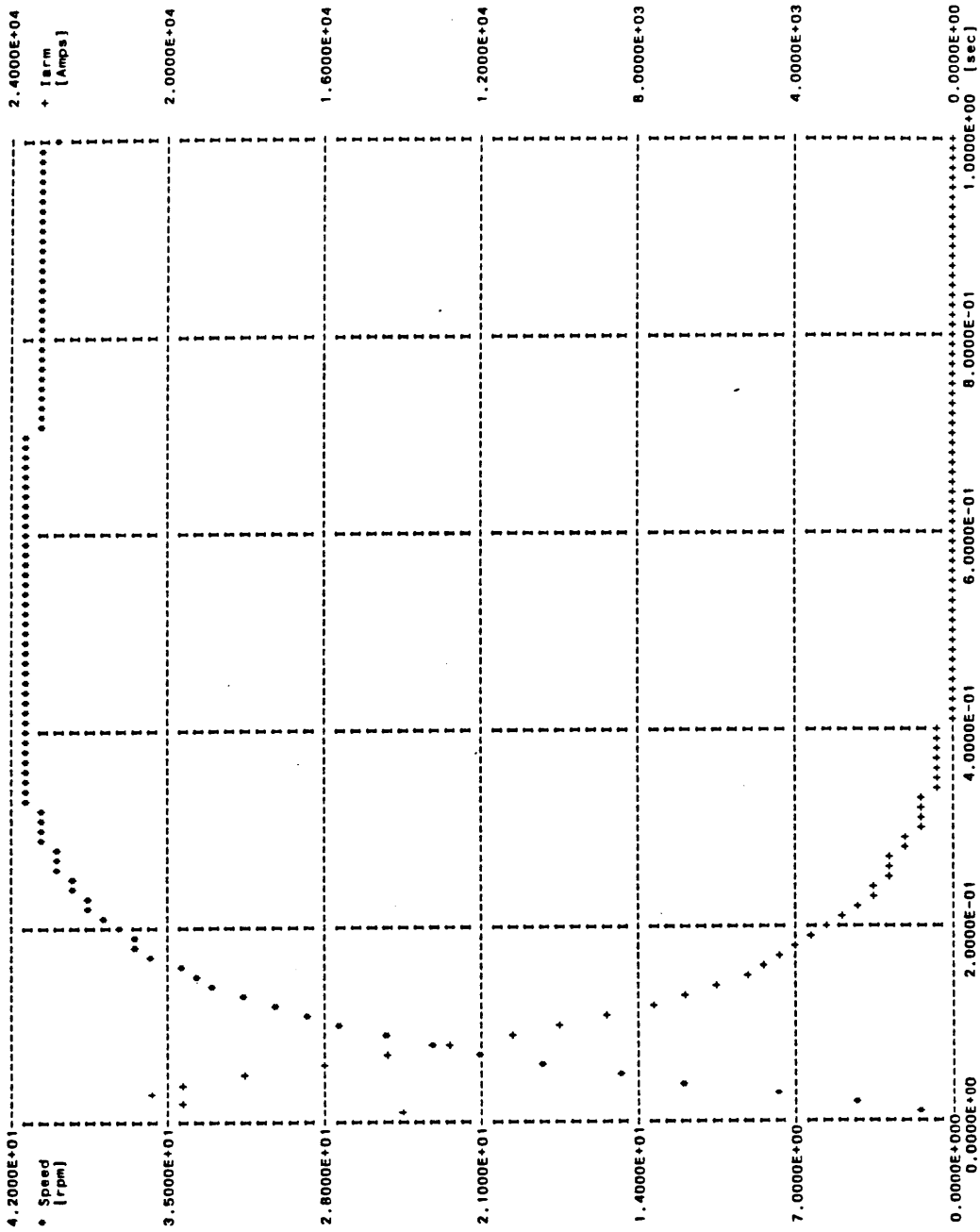


Figure #33. Speed Regulator Response. Iteration Method.

is run to simulate the system operation for one second, starting with initial conditions of the references and full field. See appendix 17 for output tables.

Using the final values as initial conditions, the program is run again to simulate another second of operation. The output tables are in appendix 18.

The system is steady.

With the same previous initial conditions but changing the load torque to 100%, the program simulates another second. The output tables are in appendix 19 and graphs in figure 34 and 35.

#### 4.8 REMOVE LOAD.

With initial conditions from the final values of the previous example, the torque load is removed and simulation is done for one second.

The output tables are in appendix 20 and the graphs in figures 36 and 37.

#### 4.9 TERMINAL VOLTAGE REGULATOR RESPONSE.

A step in the terminal voltage regulator reference is applied to measure the response.

The output tables are in appendix 21 and the graph in figure 38.

The response is 5 [rad/sec]. Previously 10 [rad/sec] were measured at top speed.



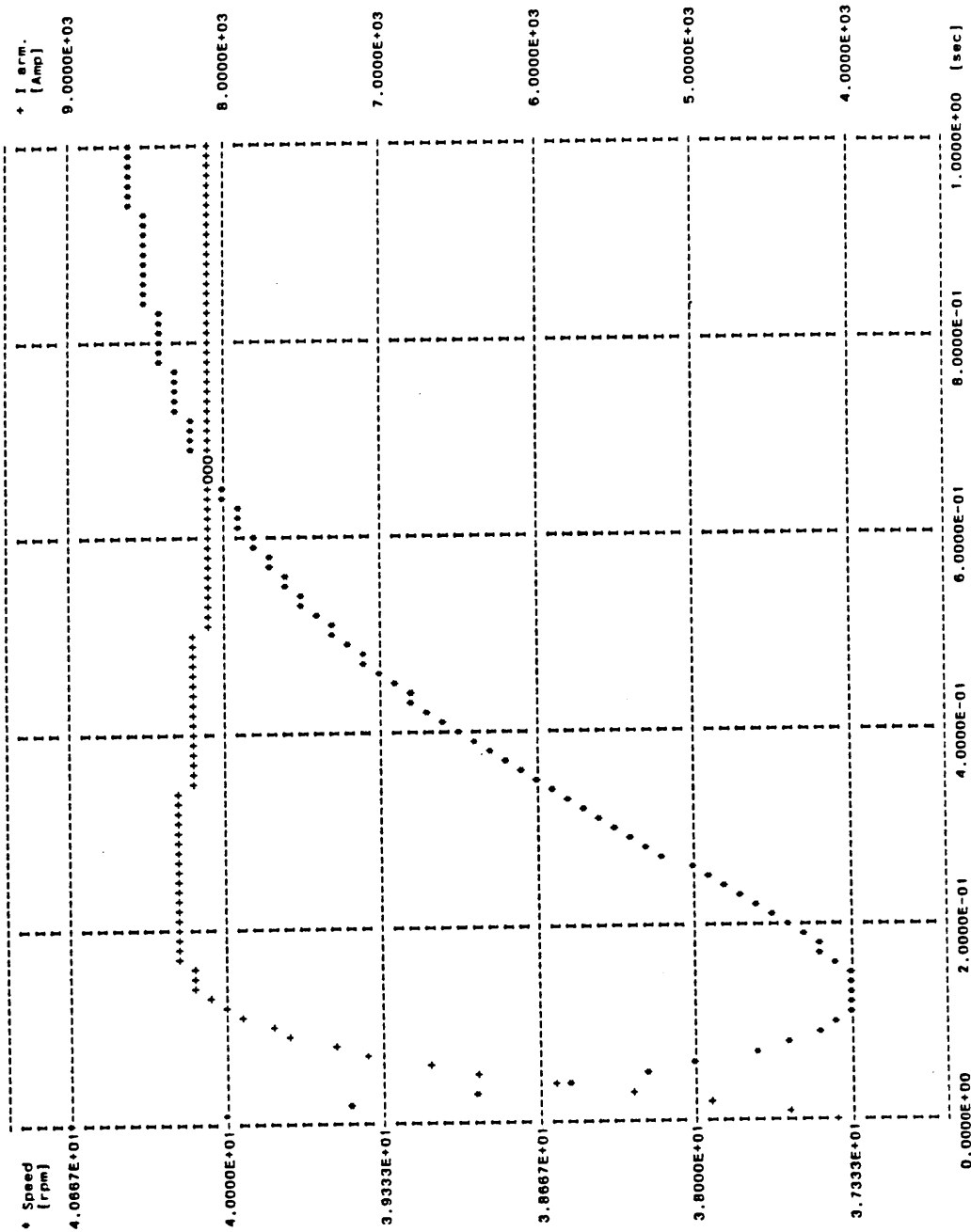


Figure #34. Load Change from 50% to 100%.

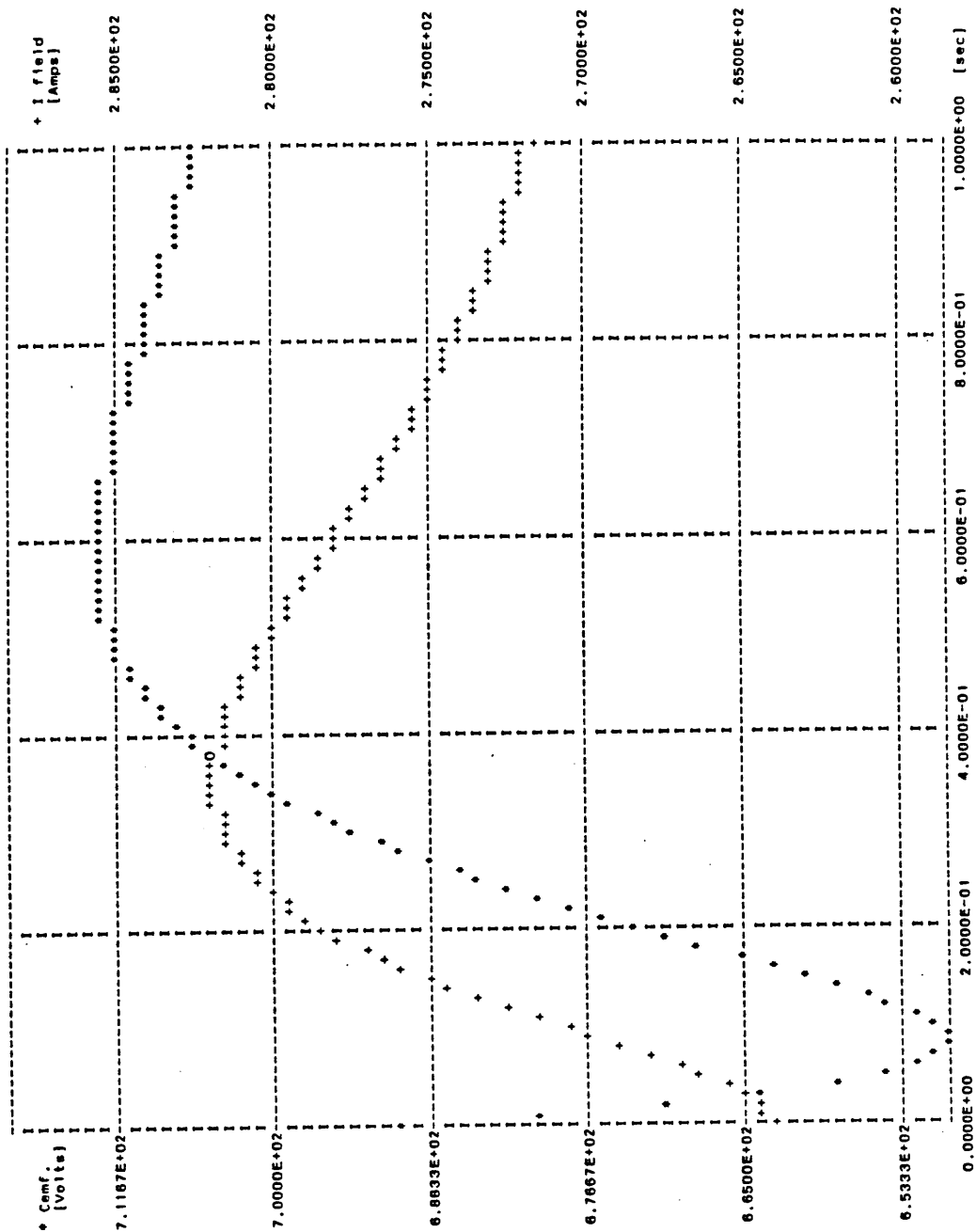


Figure #35. Load Change from 50% to 100%.

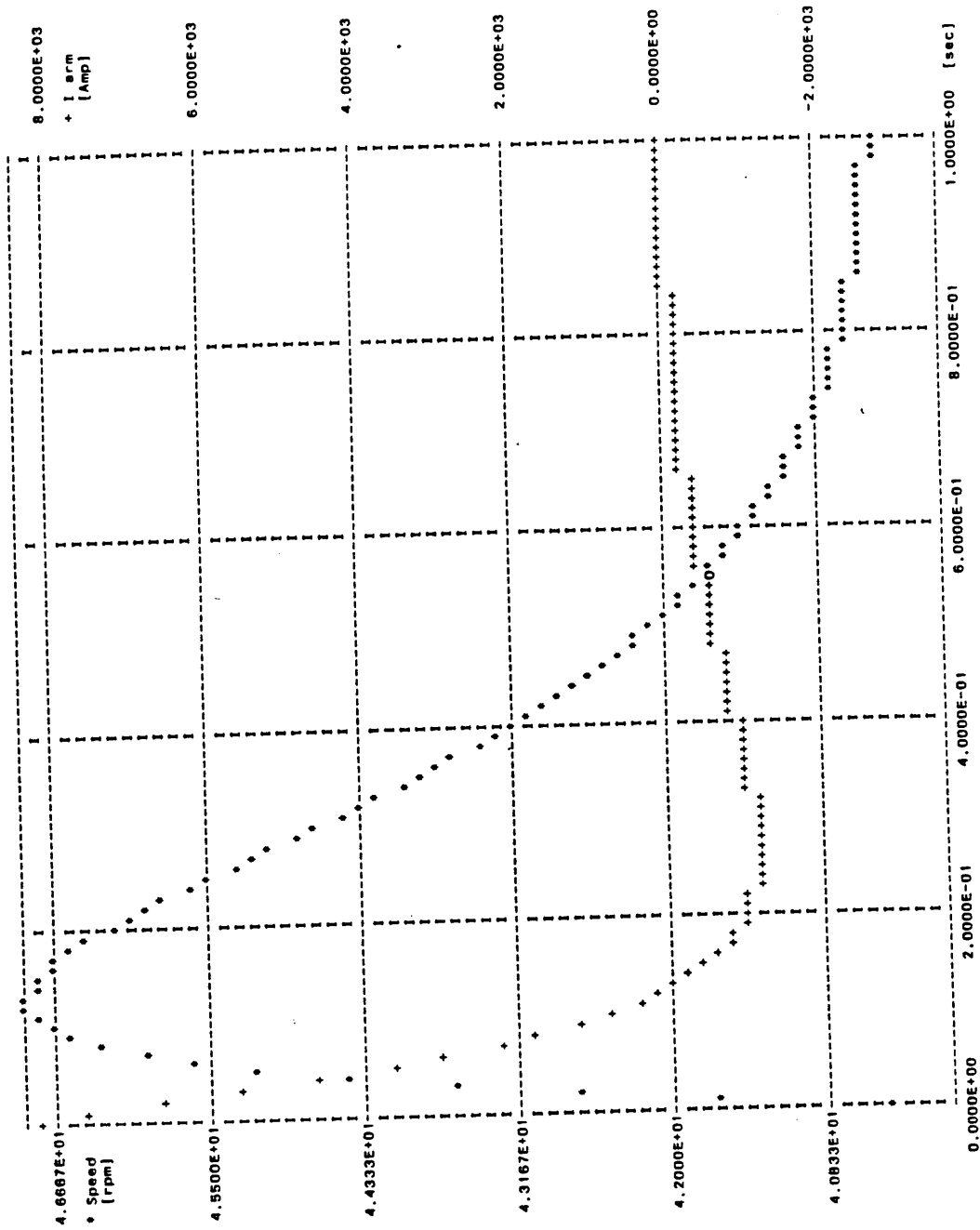


Figure #36. Load Removal.

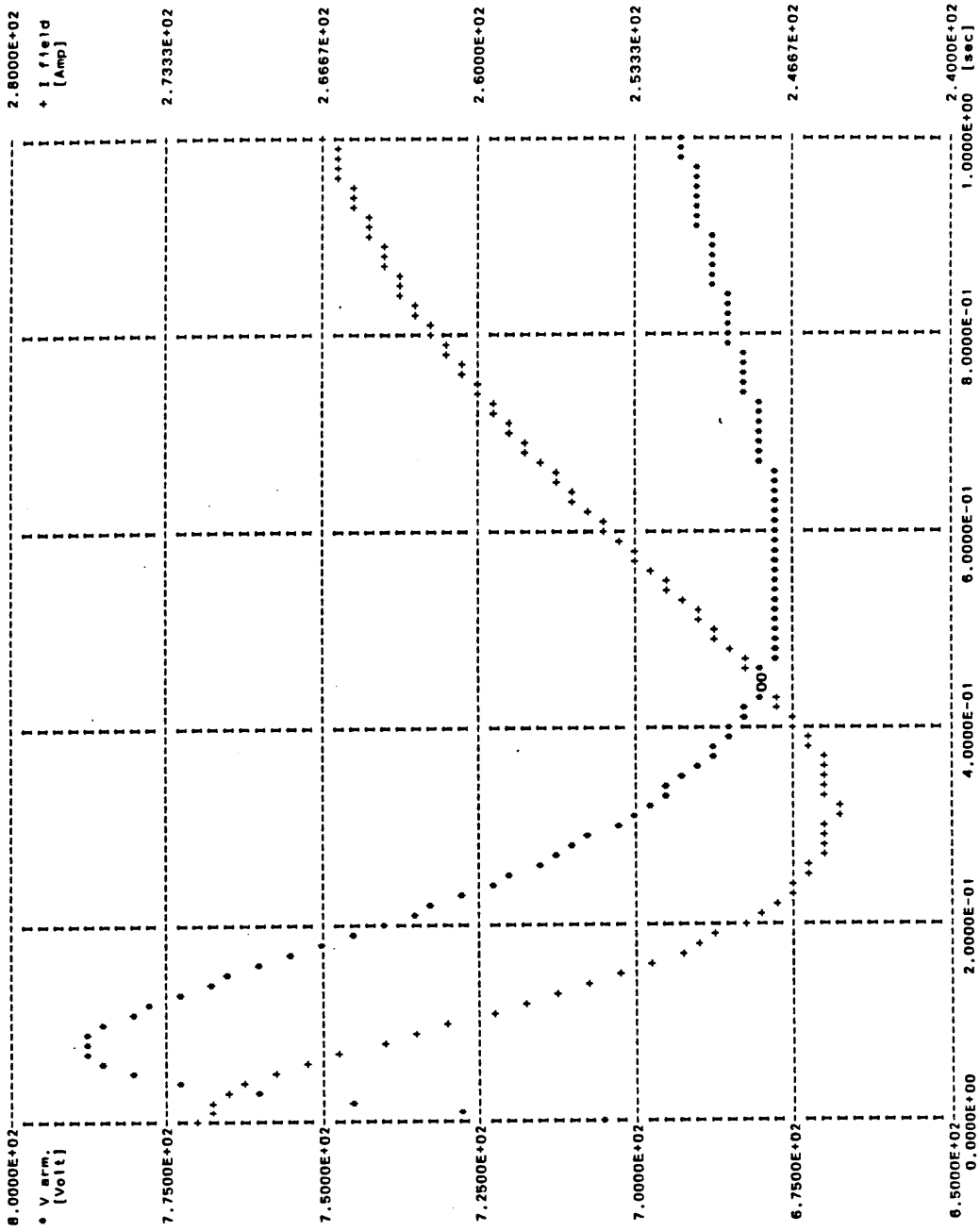


Figure #37. Load Removal.

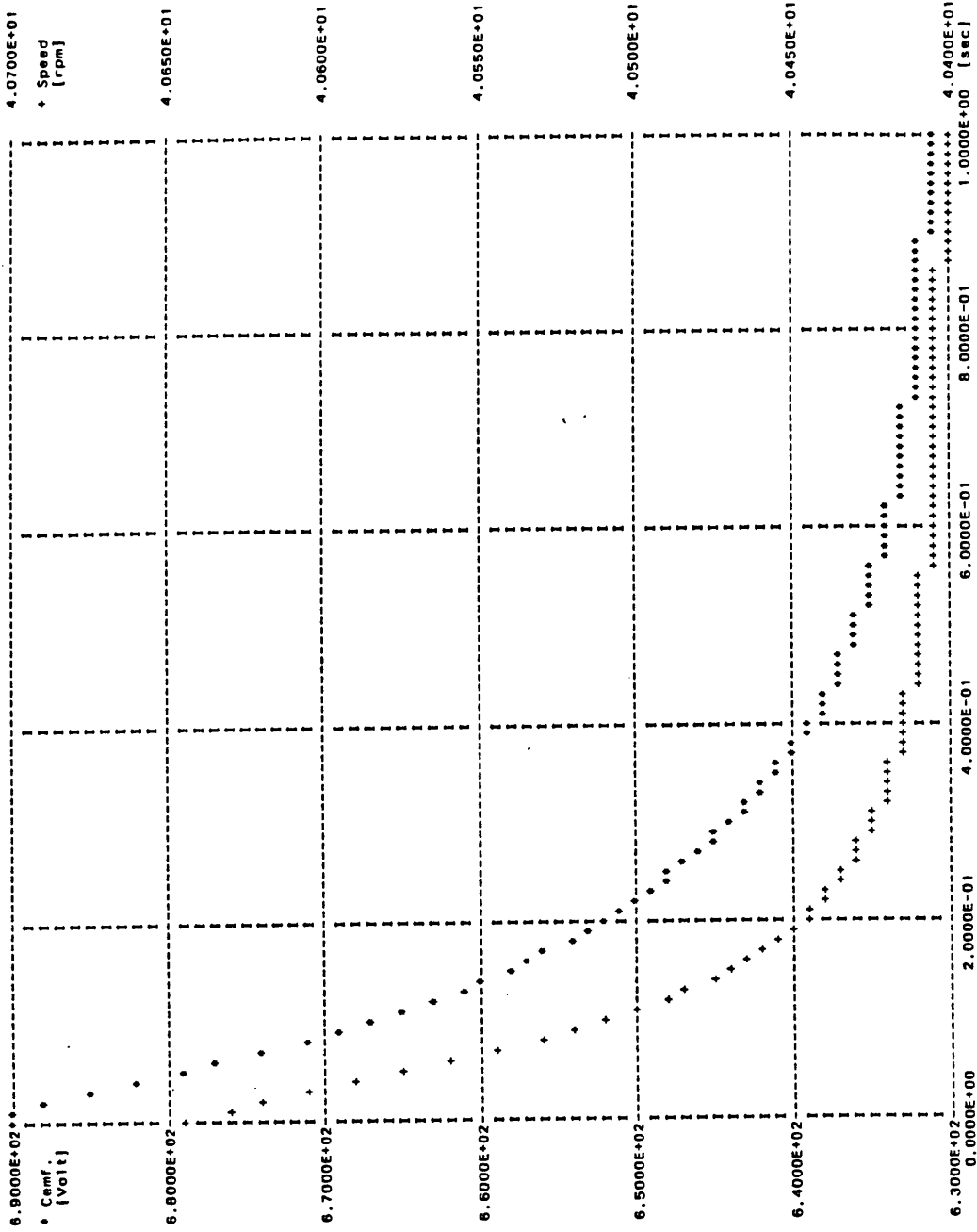


Figure #38. Terminal Voltage Regulator Response.

The system needs a gain programming in the terminal voltage regulator to compensate this deficiency.

#### 4.10 CONCLUSION.

A iteration method to model nonlinear system is developed.

It starts from the same system scheme used to generate the state equation.

The new method is tested, comparing results with the ones obtained by the transition method.

The iteration method is applied in examples over base speed, showing the behavior of the system.

A shortcoming of the installed equipment in the terminal voltage regulator is shown by simulation.

A gain programming, to get the same 10 [rad/sec] response at any speed, is recommended for future designs.

## MODEL AND DESIGN IMPROVEMENTS.

### 5.1 INTRODUCTION.

To proceed with the analysis, some improvements are added to the model and design.

The SCR exciters are considered of discrete time operation.

A terminal voltage regulator gain programming is included in the design.

Voltage in the motor brush is observed as a direct factor of flash-over.

IR compensation of 50% is included in the model.

### 5.2 DISCRETE TIME SCR EXCITERS.

Two exciters are used in the system, the armature package and the field package.

The armature package consists of two six pulse full wave three phase bridges with 30 [degree] phase difference and interface reactors, working then as a 12 pulse converter.

Historically, 12 pulse systems are made with two

independent six pulse converters and a current balance circuit.

The fact that the input signal is entered independently, in both six pulse converters, into a microprocessor, after each fire of its own bridge to calculate the next, it produces a delay of  $1/360$  [sec] or 2.777 [msec]. The delay then, is the same as in a six pulse converter, in spite of having a 12 pulse system.

Delay time can be reduce by half in a 12 pulse system if a common microprocessor is used or if the input signal sampling is delayed till the firing of the other bridge. None are yet cases of real equipment.

The field package is a six pulse converter, so the delay is 2.777 [msec].

The model of the SCR considers small changes of phase angle between fires. It is shown in figure 39.

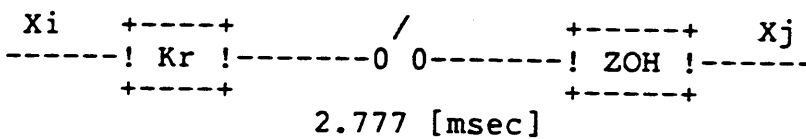


Figure 39. Discrete Time SCR.

$X_j$  changes its value every 2.777 [msec] and remains frozen till the next update.

This manipulation is straight forward in the iteration program environment, where real time track is maintained.



### 5.3 CURRENT REGULATOR WITH DISCRETE TIME SCR.

The delay in the SCR due to firing, affects only the inner loop, because it has the fastest response.

A new block diagram in figure 40 includes the sampling and zero order hold.

The program ITERATION in appendix 21 yields the response to an input step, producing the tables of appendix 22 and graph of figure 41.

The regulator is unstable.

For comparison, figure 42 has the response for a continuous SCR.

The gain is reduced and the amplifier lead decreased in frequency.

With 40% gain of previous, and lead at 166 [rad/sec],  $K_4$  is 2.09E06 and  $K_6$  is 140.4 and the response is shown in figure 43, measuring 500 [rad/sec].

Changing the gain to a fifth of the original and the lead to 100 [rad/sec],  $K_4$  is 1.045E06 and  $K_6$  is 74.4 and yields 250 [rad/sec] in figure 44.

These last values are going to be adopted in the future.

### 5.4 FIELD REGULATOR WITH DISCRETE SCR.

The block diagram is shown in figure 45.

The response to a step input is found with the program of appendix 23, yielding the table of appendix 24 and the

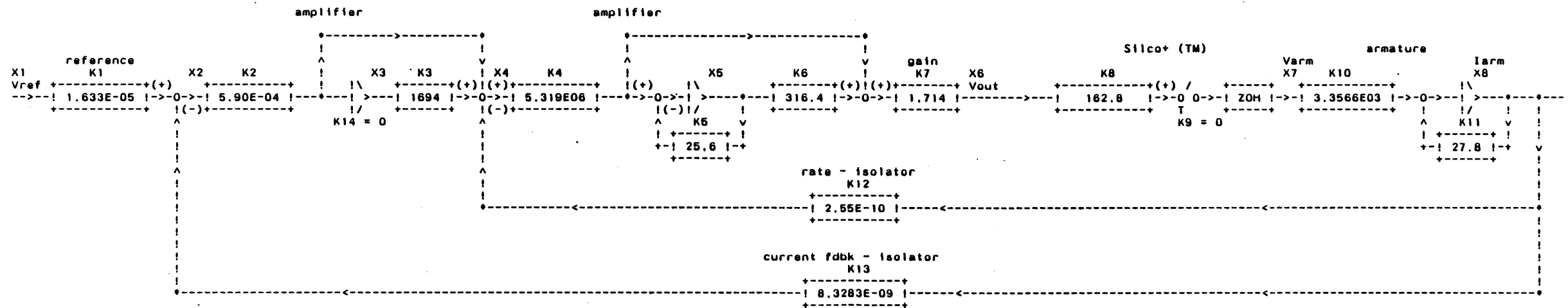


Figure #40. Current Regulator. Discrete Time SCR.

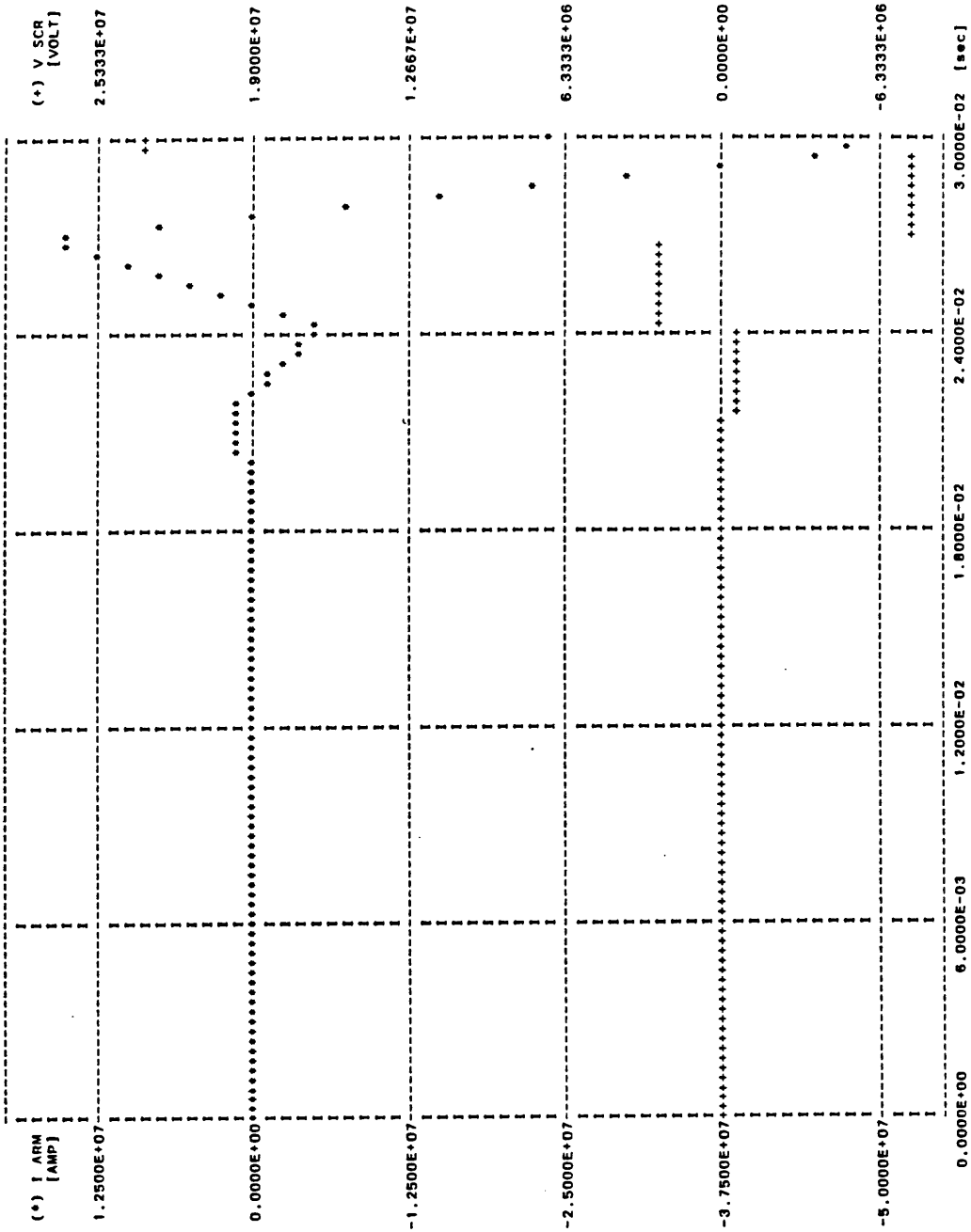


Figure #41. Current Reg. Step Response. 1200 [rad/sec] Rate. Discrete SCR. Unstable.

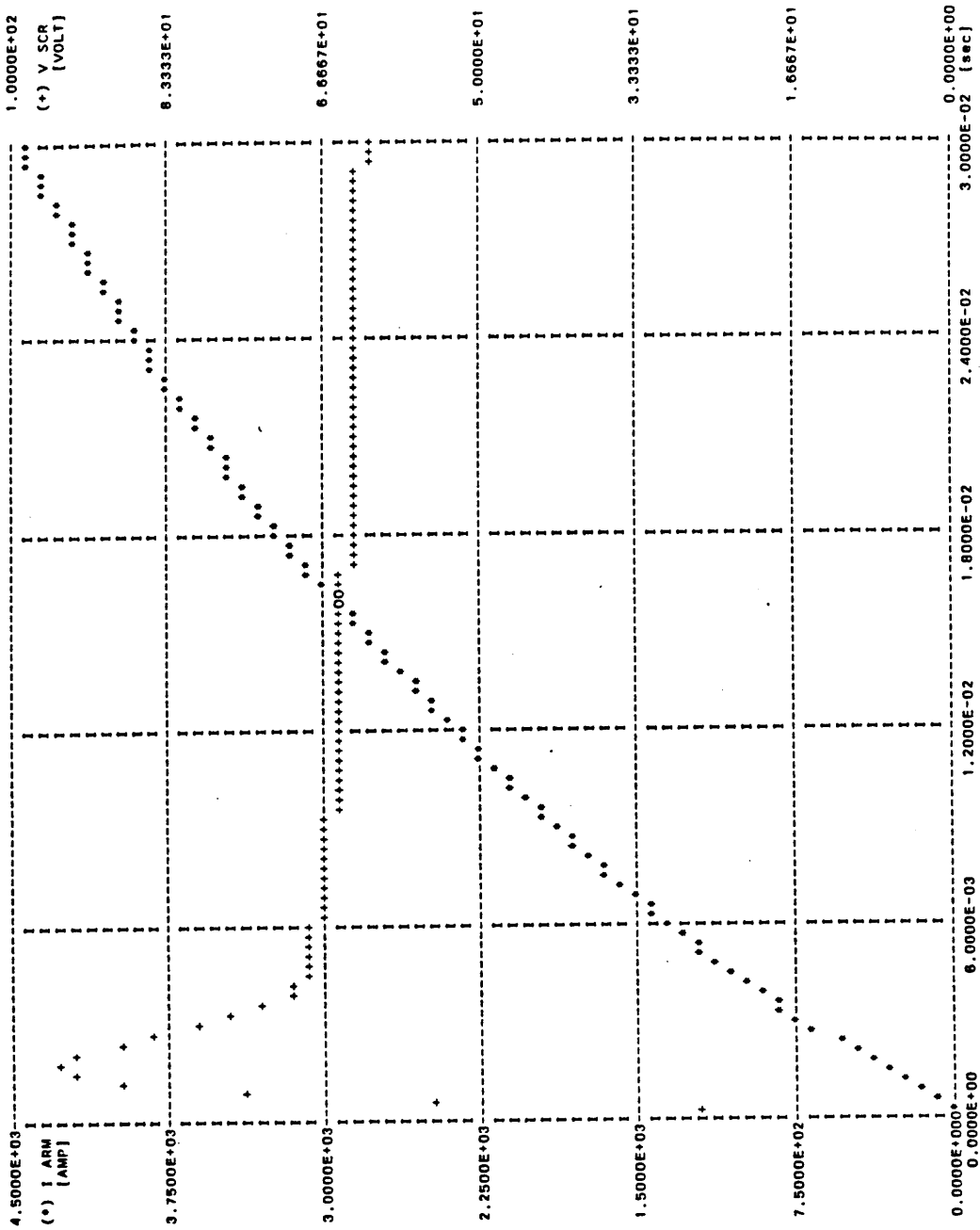


Figure #42. Current Reg. Step Response. 1200 [rad/sec] Rate. Continuous Time SCR. ( 7120 [Amp] is 100% current. )

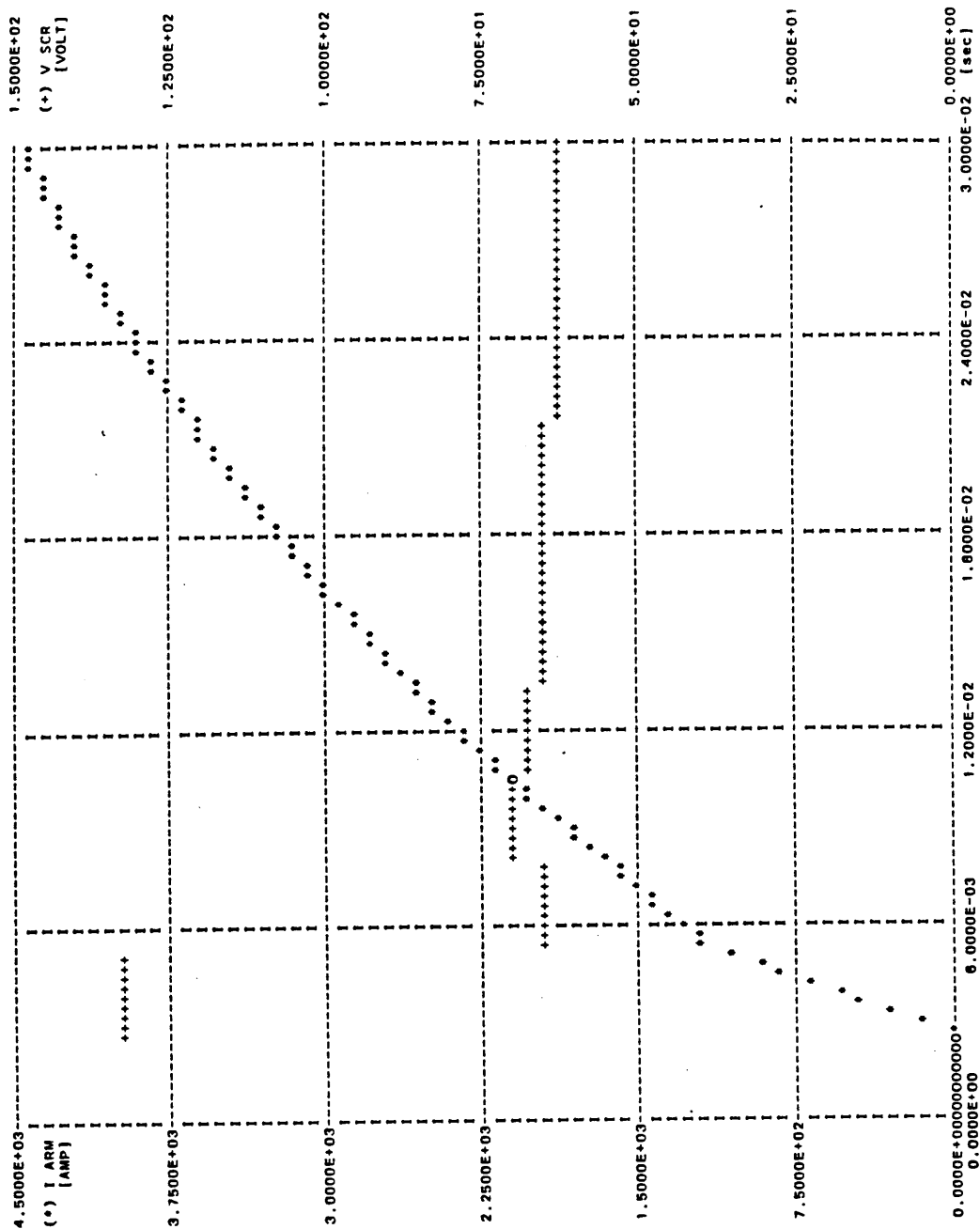


Figure #43. Current Reg. Step Response. 500 [rad/sec] Rate. Discrete Time SCR. ( 7120 [Amp] 100% current. )

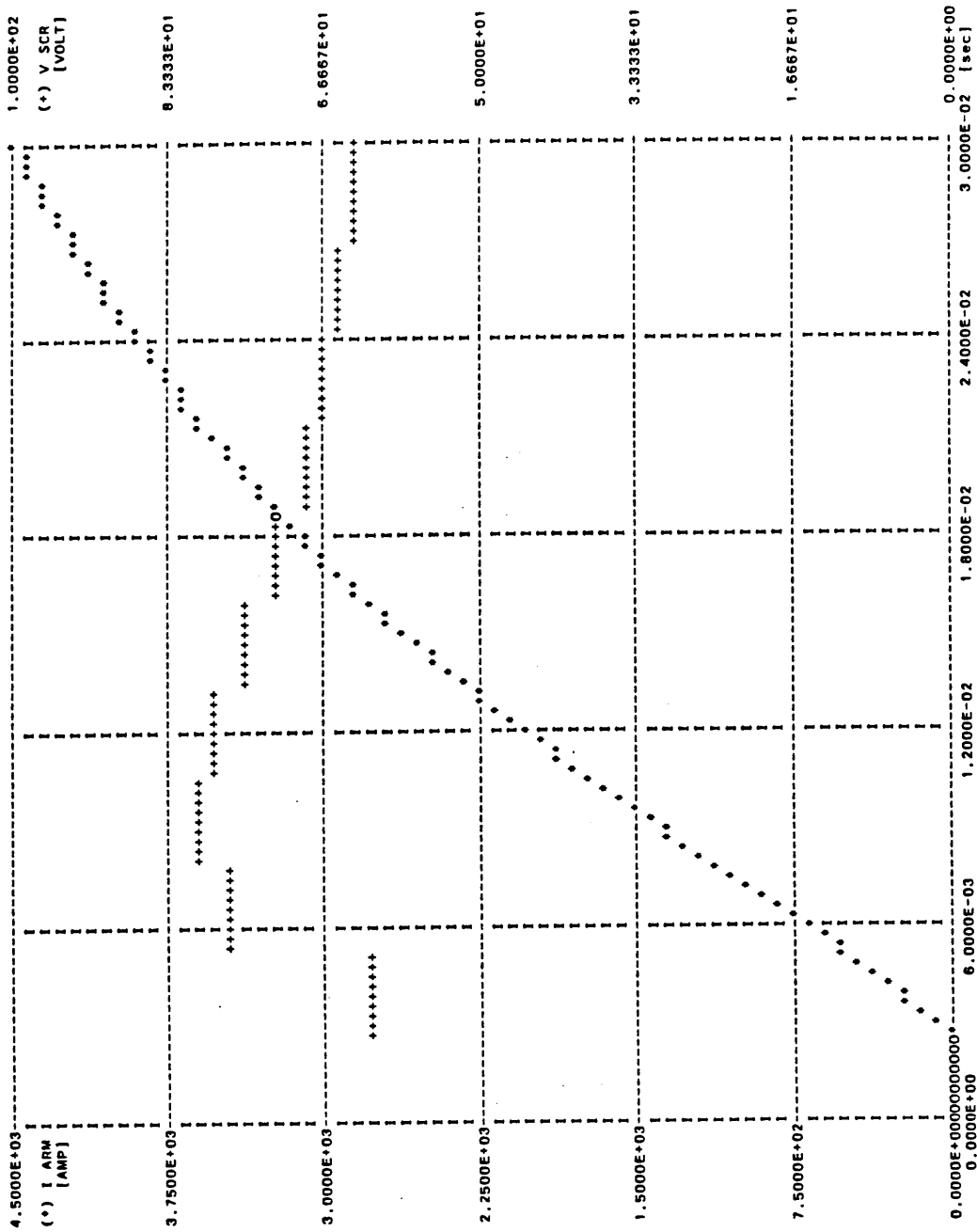


Figure #44. Current Reg. Response. 250 [rad/sec] Rate. Discrete SCR.  
 ( 7120 [Amp] 100% current. )



graph of figure 46.

Note that in spite of the gain being increased to have a 40 [rad/sec] response, the delay in the firing does not affect the response.

#### 5.5 SYSTEM BELOW BASE SPEED. DISCRETE TIME SCR.

To analyze the system below base speed, considering discrete time SCR, figure 7 with sampling and ZOH, and also variables and constants are redefined to use the iterative concept. It yields the figure 47.

The program ITERATION of appendix 25 solves the system. The response to an input speed reference step is shown in appendix 26 and the graph in figure 48.

Comparing this response with figure 23, no appreciable difference is observed because the slower rate current loop does not affect very much the speed.

On the other hand, simulating a perturbation in the armature current, the response is shown in tables in appendix 27 and in graph in figure 49. Comparing with figure 9, where the current rate is 1200 [rad/sec] and the SCR is considered continuous, the system now with 250 [rad/sec] rate and discontinuous time SCR, reacts much slower.



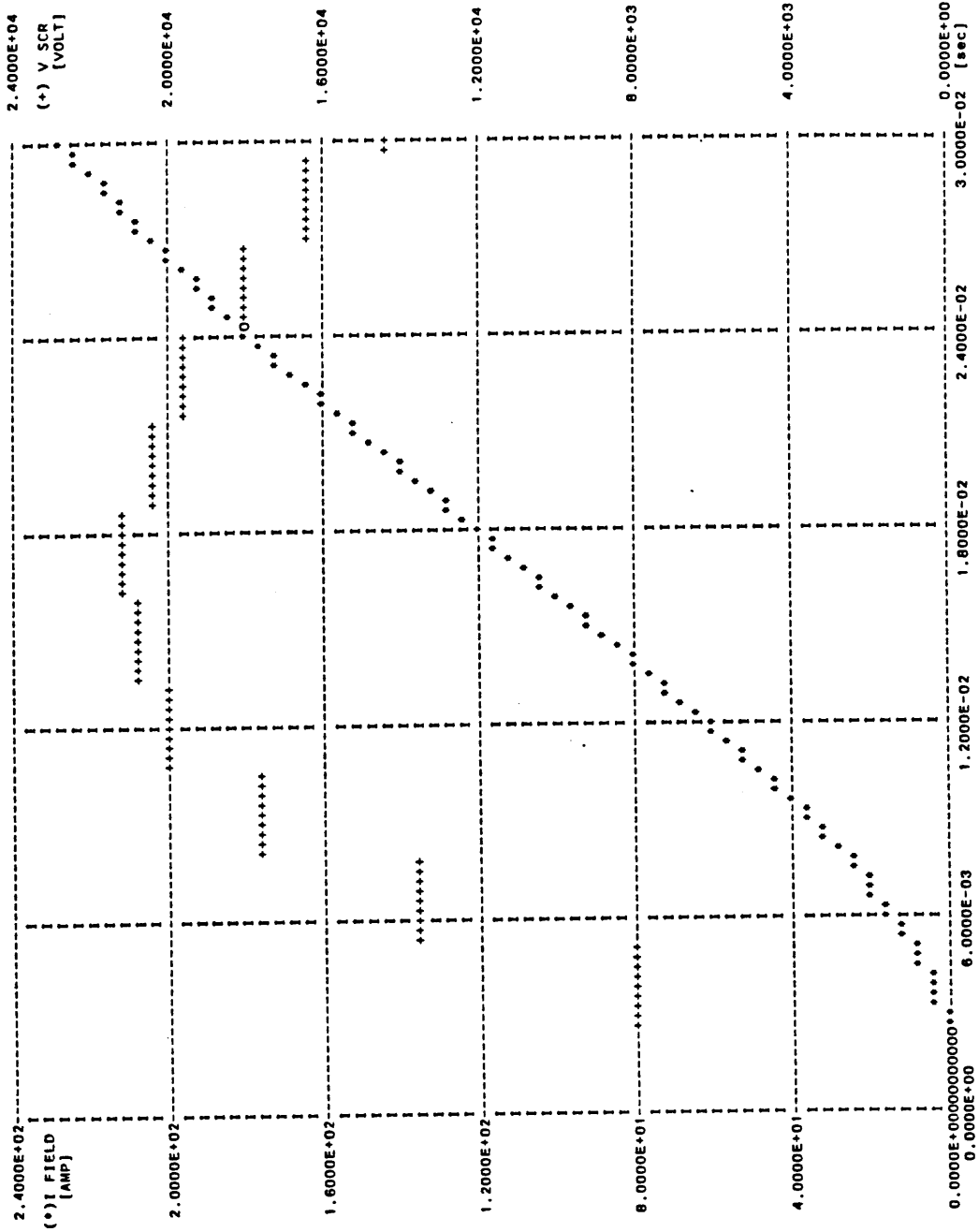


Figure #46. Field Regulator. Current step Response. Discrete Time SCR.  
(Full field is 310 [Amp].)

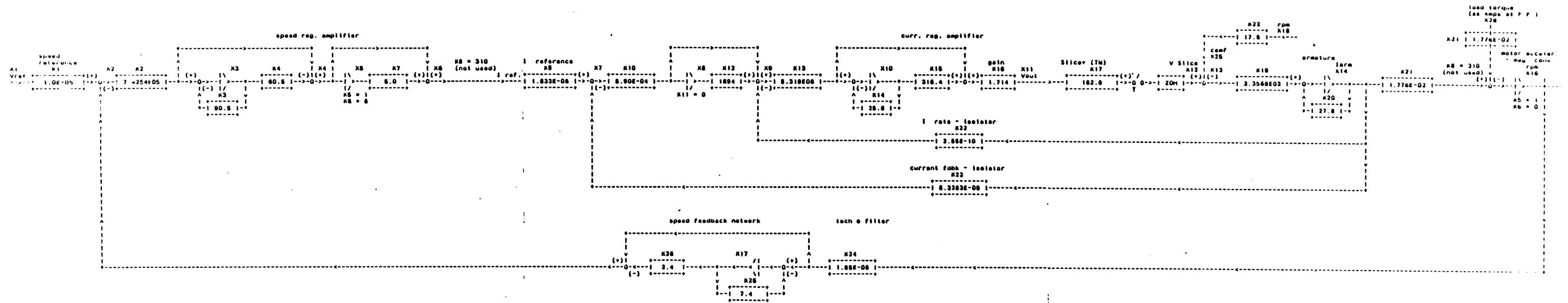


Figure #47. Below Base Speed .Discrete Time SCR.

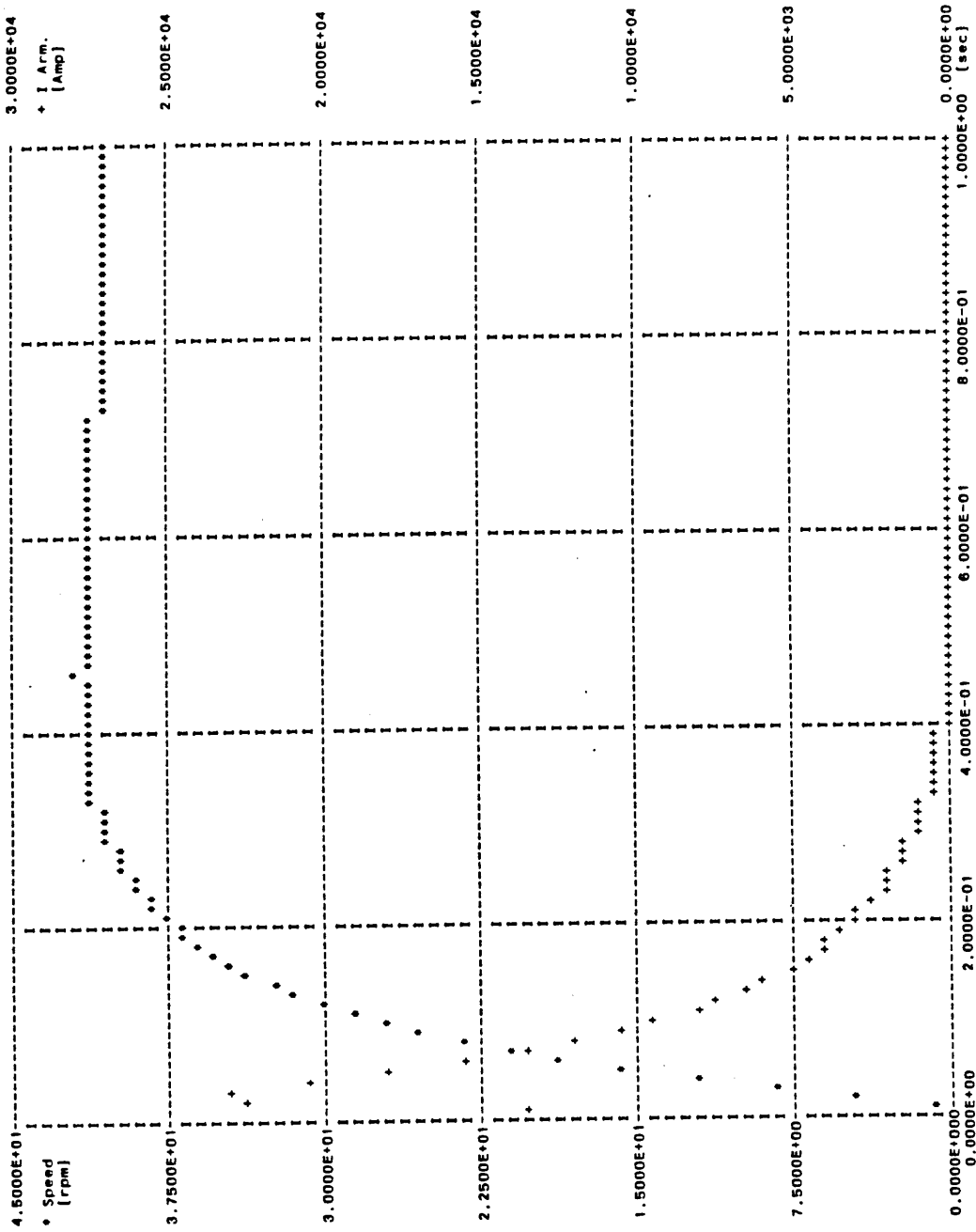


Figure #48. System Below Base Speed. Discrete Time SCR. Speed Response.

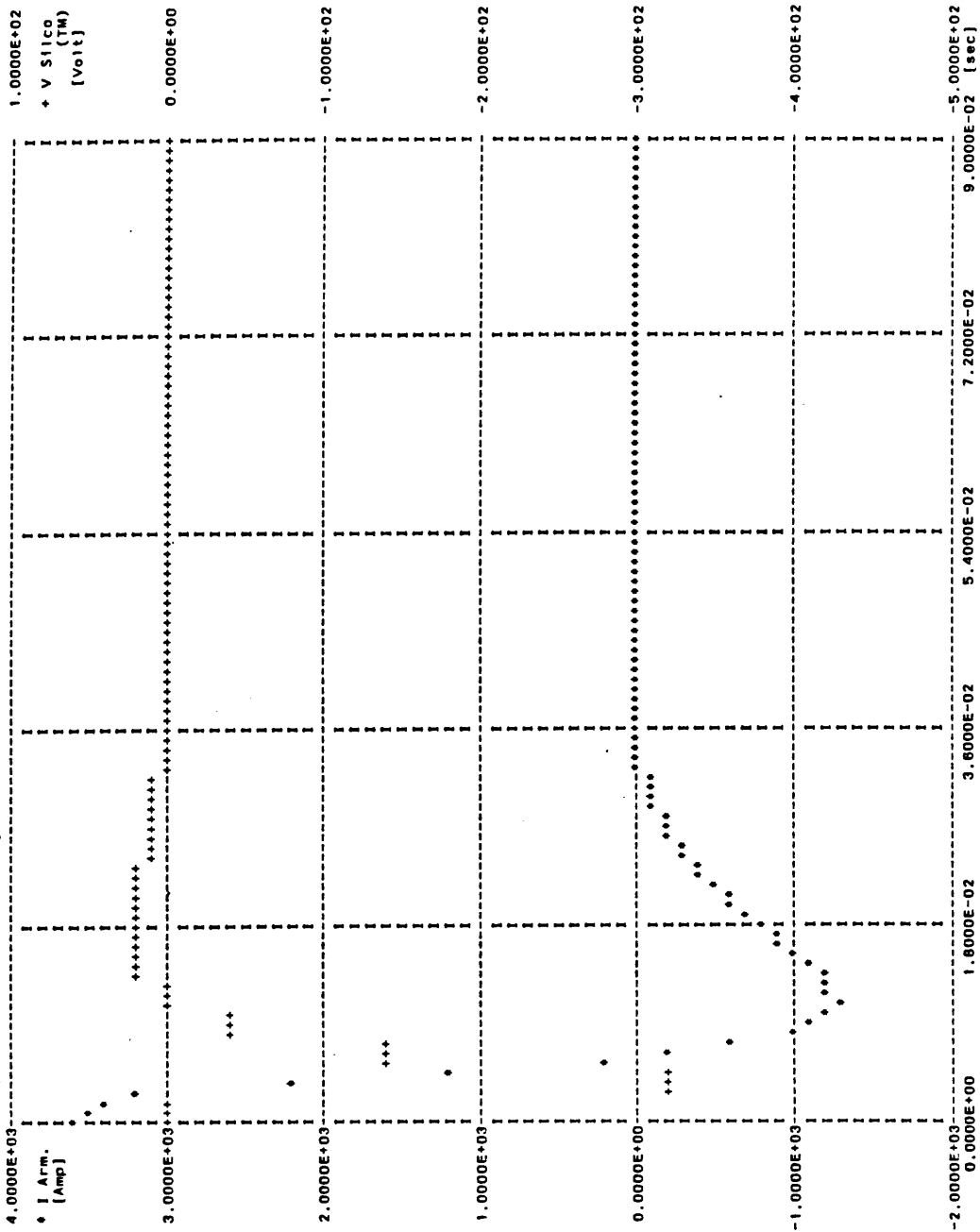


Figure #49. Armature Current Perturbation, Below Base Speed, Discrete Time SCR.

5.6 MOTOR BRUSH VOLTAGE.

To analyze the possibility of motor flash-over, the brush voltage is monitored.

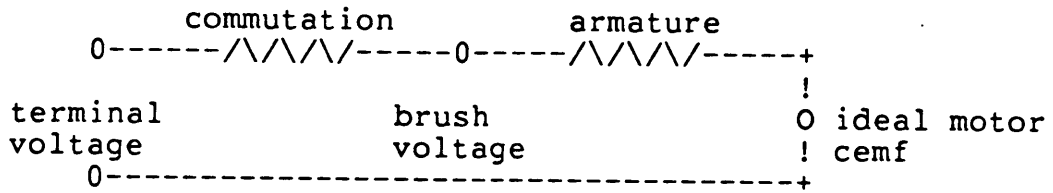


Figure 50. Brush Voltage.

The expression of the brush voltage is:

$$V_{\text{brush}} = \frac{V_{\text{term}} - V_{\text{cemf}}}{Z_{\text{comm}} + Z_{\text{arm}}} * Z_{\text{arm}} + V_{\text{cemf}}$$

Plugging values of resistance and inductance, it yields:

$$V_b = (V_s - V_c) * \frac{R_a + s * L_a}{R_a + R_c + s * (L_a + L_c)} + V_c$$

To express in terms of constants and "integrator cells", to include these elements in the system block diagram, more algebraic manipulation is performed.

$$V_b = (V_s - V_c) * \frac{L_a (R_a / L_a + s)}{(L_a + L_c) ((R_a + R_c) / (L_a + L_c) + s)} + V_c$$

$$V_b = (V_s - V_c) * \frac{L_a}{L_a + L_c} * \frac{\frac{R_a + R_c}{L_a + L_c} + s + \left( \frac{R_a}{L_a} - \frac{R_a + R_c}{L_a + L_c} \right)}{\frac{R_a + R_c}{L_a + L_c} + s} + V_c$$

$$V_b = (V_s - V_c) * \frac{L_a}{L_a + L_c} * \left( 1 + \frac{\frac{R_a}{L_a} - \frac{R_a + R_c}{L_a + L_c}}{\frac{R_a + R_c}{L_a + L_c} + s} \right) + V_c$$

This last expression is represented in figure 51.

From the motor data sheet, the following values are read.

$$\begin{aligned} R_c &= 0.003738 \text{ [Ohms]} \\ L_c &= 0.558E-03 \text{ [Hy]} \\ R_a &= 0.008282 \text{ [Ohms]} \\ L_a &= 0.426E-03 \text{ [Hy]} \end{aligned}$$

Plugging them in the brush voltage expression and including this configuration in the above base speed system block diagram, it yields figure 52.

#### 5.7 SYSTEM ABOVE BASE SPEED. DISCRETE TIME SCR.

The model of figure 52, which includes a terminal voltage regulator gain programming, is run at 1% over base speed.

It uses the program ITERATION of appendix 28.

To get a steady state to use as initial condition, the program simulates 1 [sec] of running. The output tables are in appendix 29.

Using this steady state as initial conditions, the shaft load is changed from 50 to 100%. The output tables are in appendix 30. Speed, armature current, brush voltage and field current are shown in figures 53 and 54.

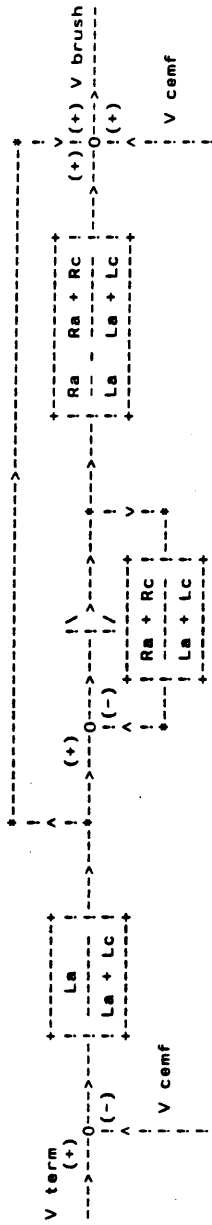


Figure #51. Brush Voltage Block Diagram.

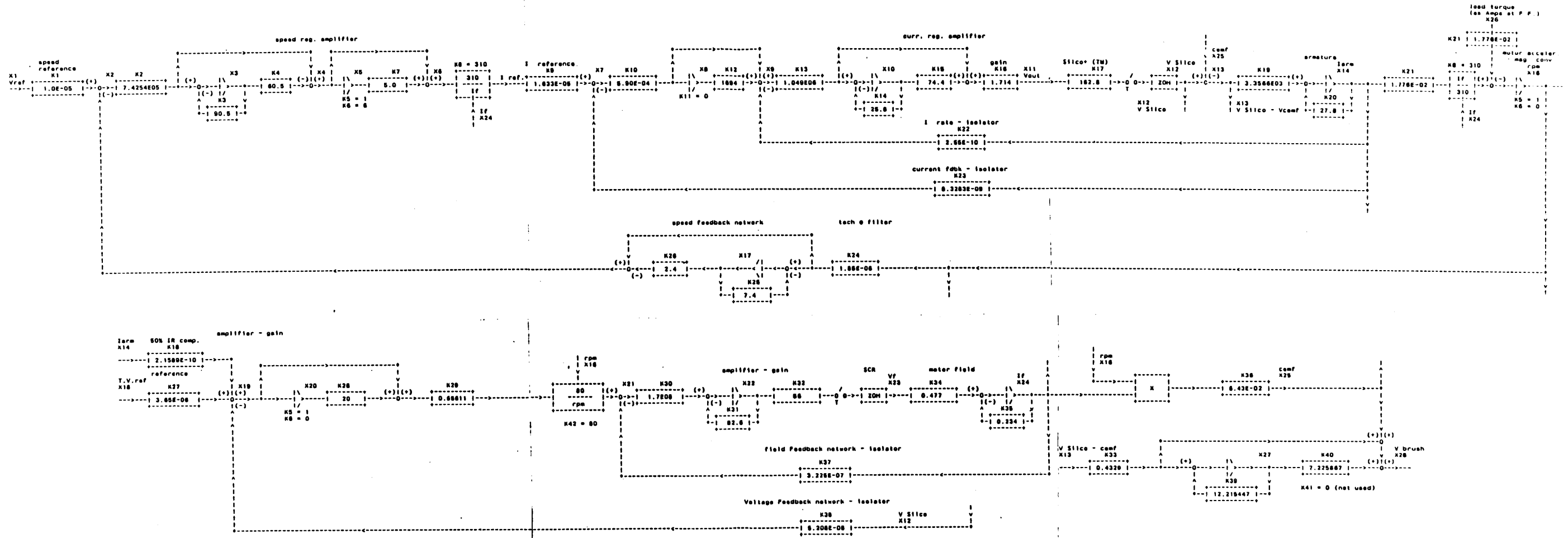


Figure #52. Above Base Speed. Discrete SCR and Brush Voltage.



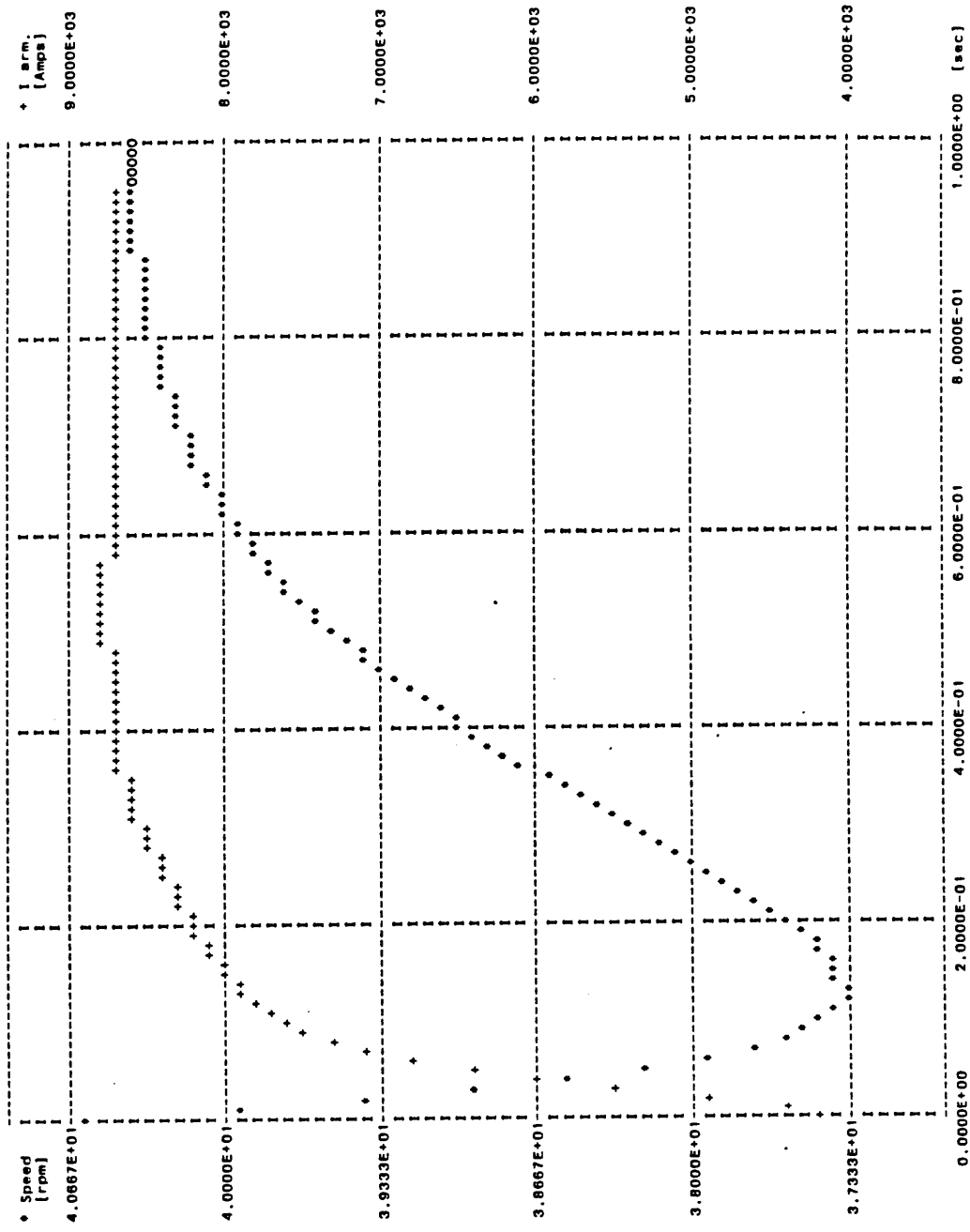


Figure #53. Above Base Speed. Discrete Time SCR. TVR Gain Progr.. Load Increase from 50% to 100%.

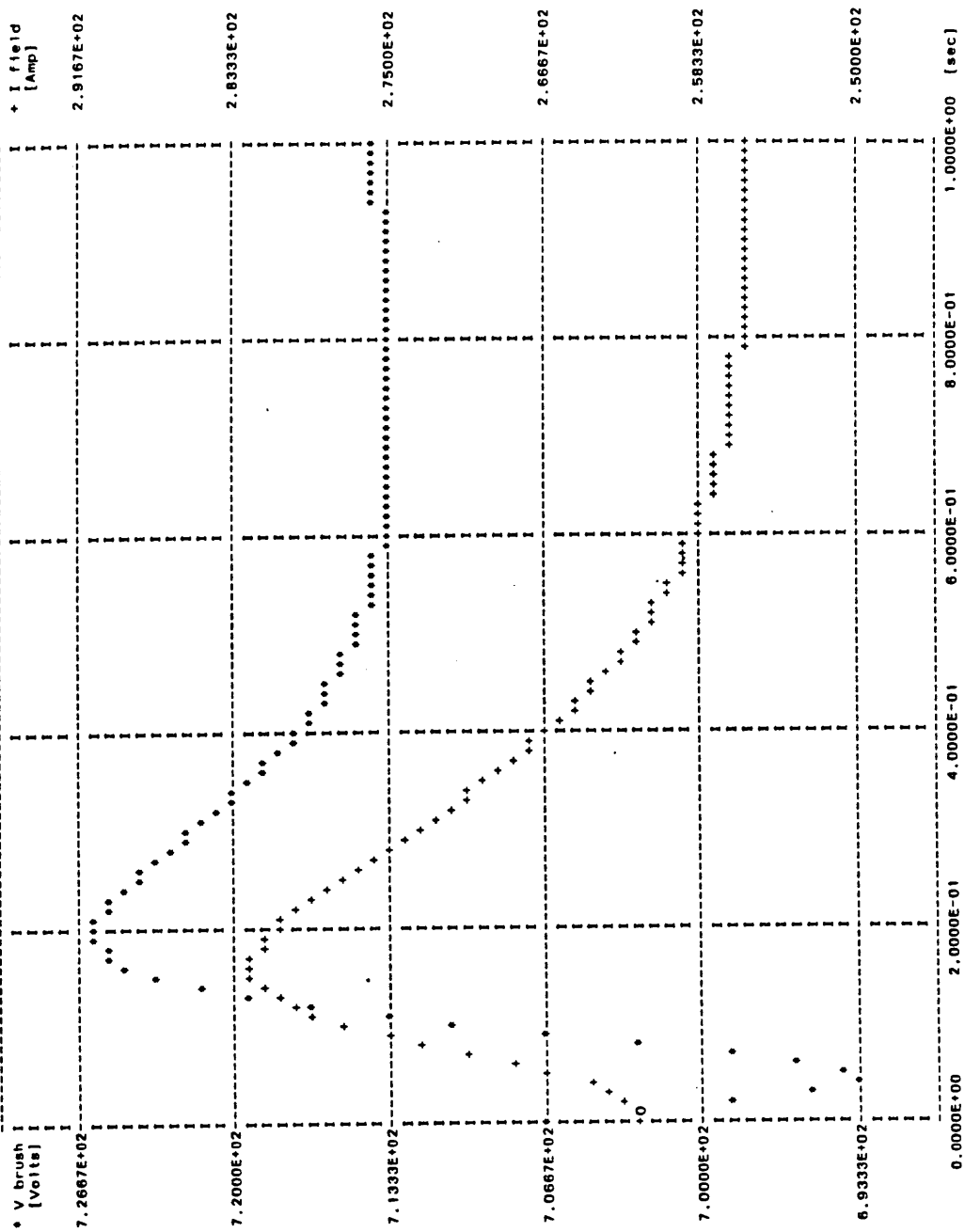


Figure #54. Above Base Speed. Discrete Time SCR. TVR Gain Progr.. Load Increase from 50% to 100%.

Using the final values with 100% load as initial conditions and removing the load, the program simulates another second of operation. The output tables are in appendix 31 and graphics for the same variables as before are shown in figures 55 and 56.

To see the improvements due to the TVR gain programming, the model is simulated, this time without it, but the same other components and also considering the time discrete SCR.

The program used is in appendix 32. The steady state condition is reached as shown in tables of appendix 33.

The load is increased from 50 to 100% with output tables in appendix 34, showing graphs in figures 57 and 58.

Then, the load is removed with output tables in appendix 35 and graphs in figures 59 and 60.

Running at 50.5% of top speed, a speed reference step of 5% of top speed is applied to both systems, the installed configuration and the scheme with TVR gain programming. A load torque of 50% is maintained.

For the TVR gain programming modified system, the output tables are in appendix 36 and graphics in figure 61 and 62. The installed system has the output tables in appendix 37 and the graphs in figures 63 and 64.

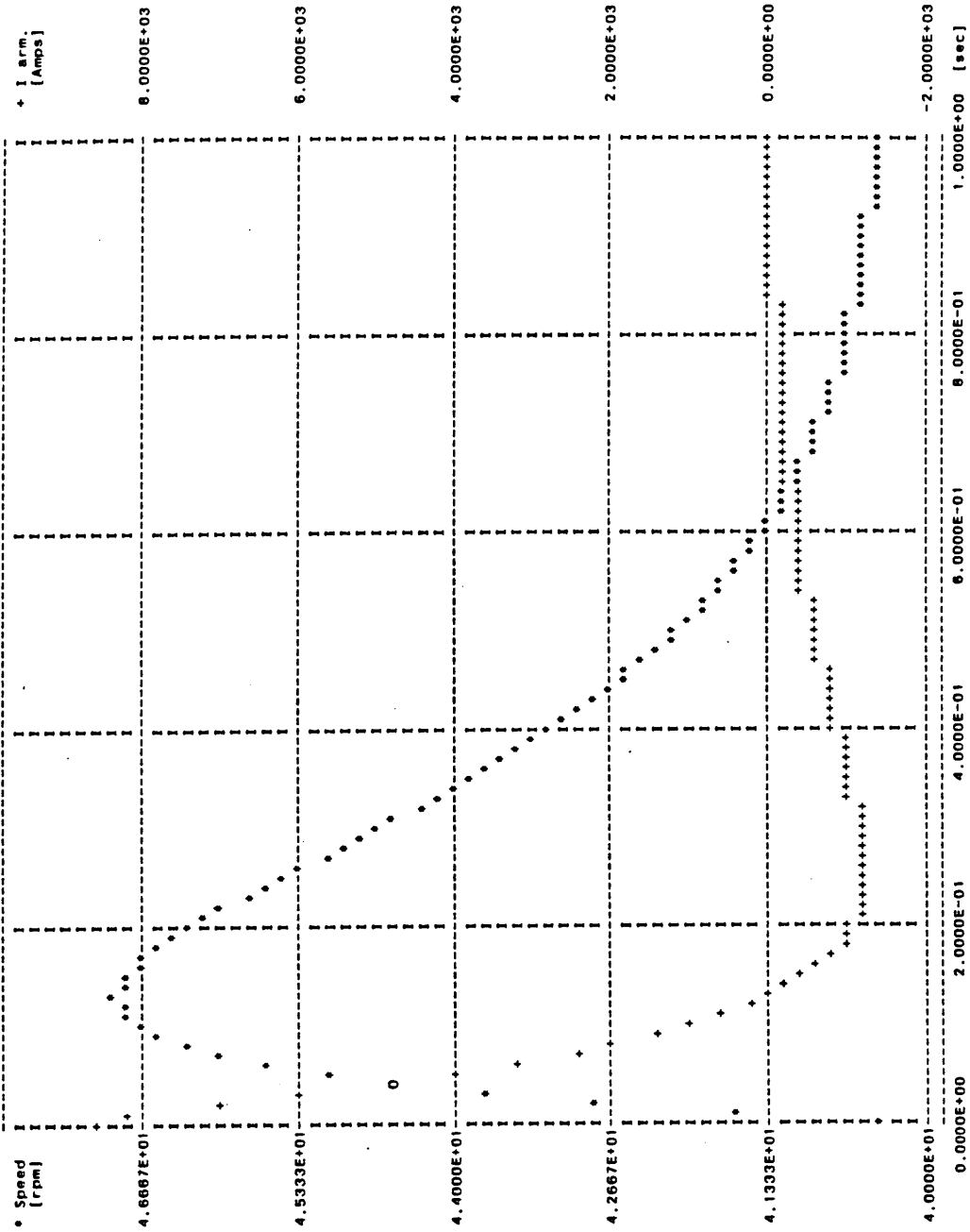


Figure #55. Above Base Speed. Discrete Time SCR. TVR Gain Progr.. Remove Load.

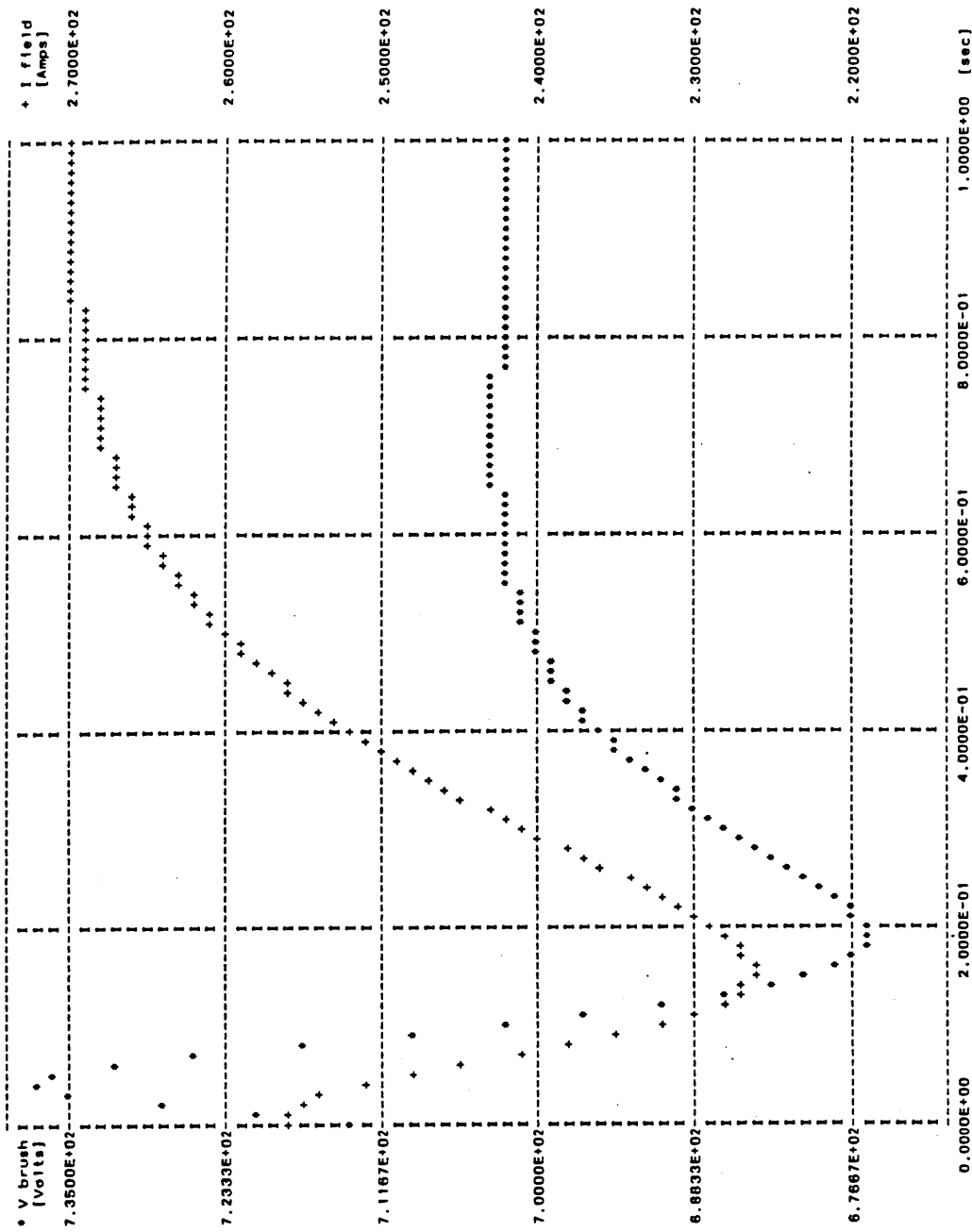


Figure #56. Above Base Speed, Discrete Time SCR, TVR Gain Progr... Remove Load.

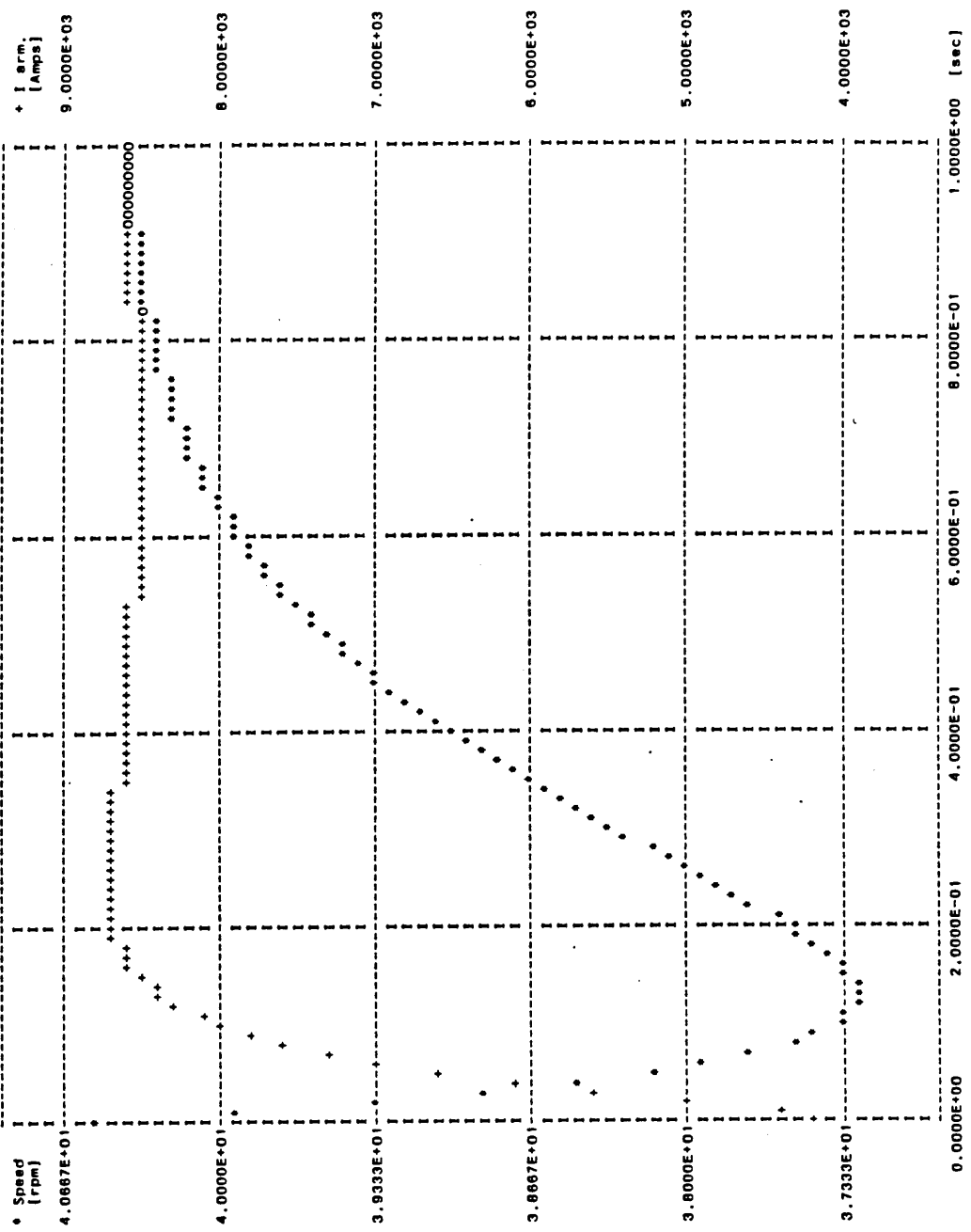


Figure #57. Above Base Speed. Discrete Time SCR. Installed System. Load Increase from 50% to 100%.

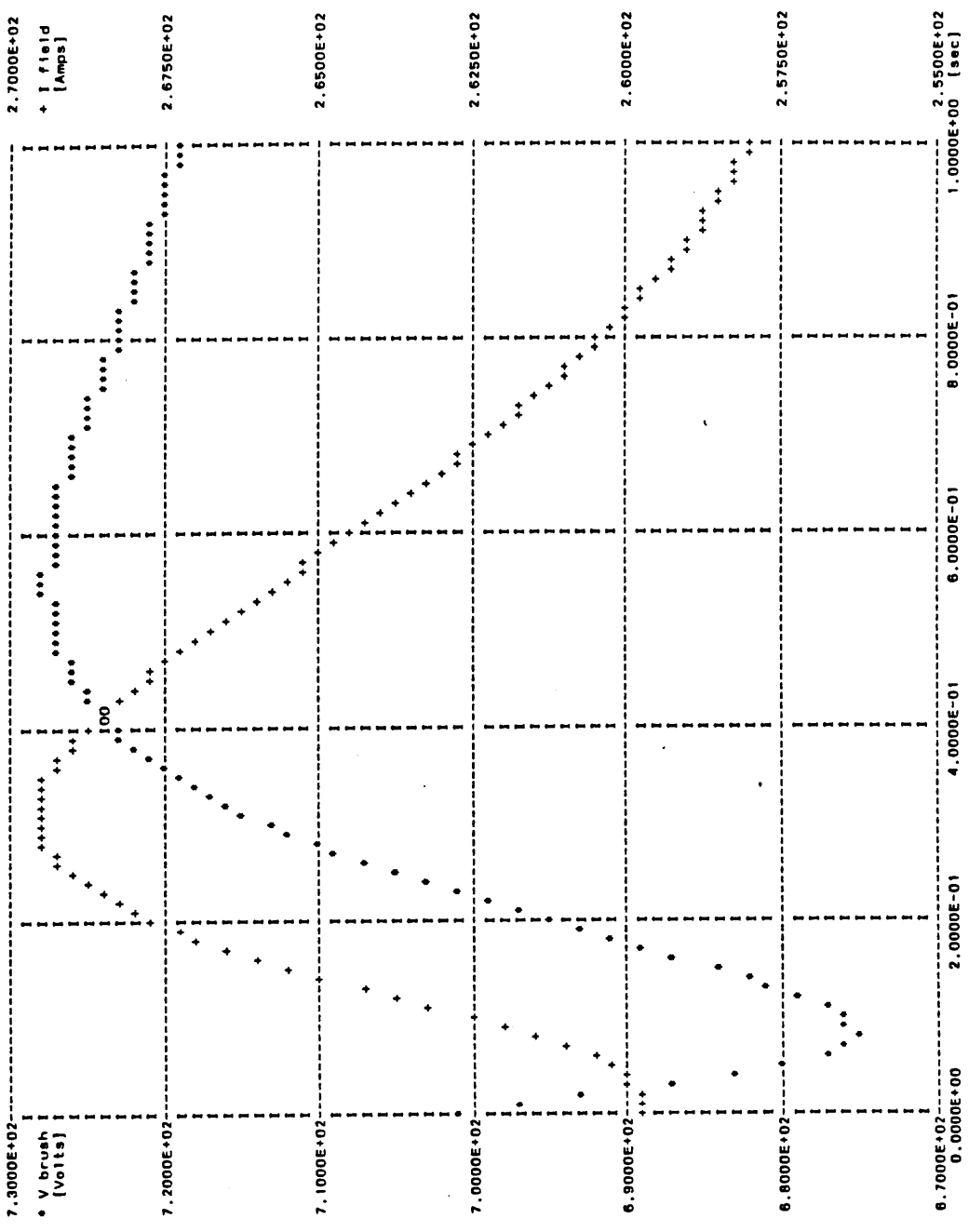


Figure #58. Above Base Speed. Discrete Time SCR. Installed System. Load Increase from 50% to 100%.

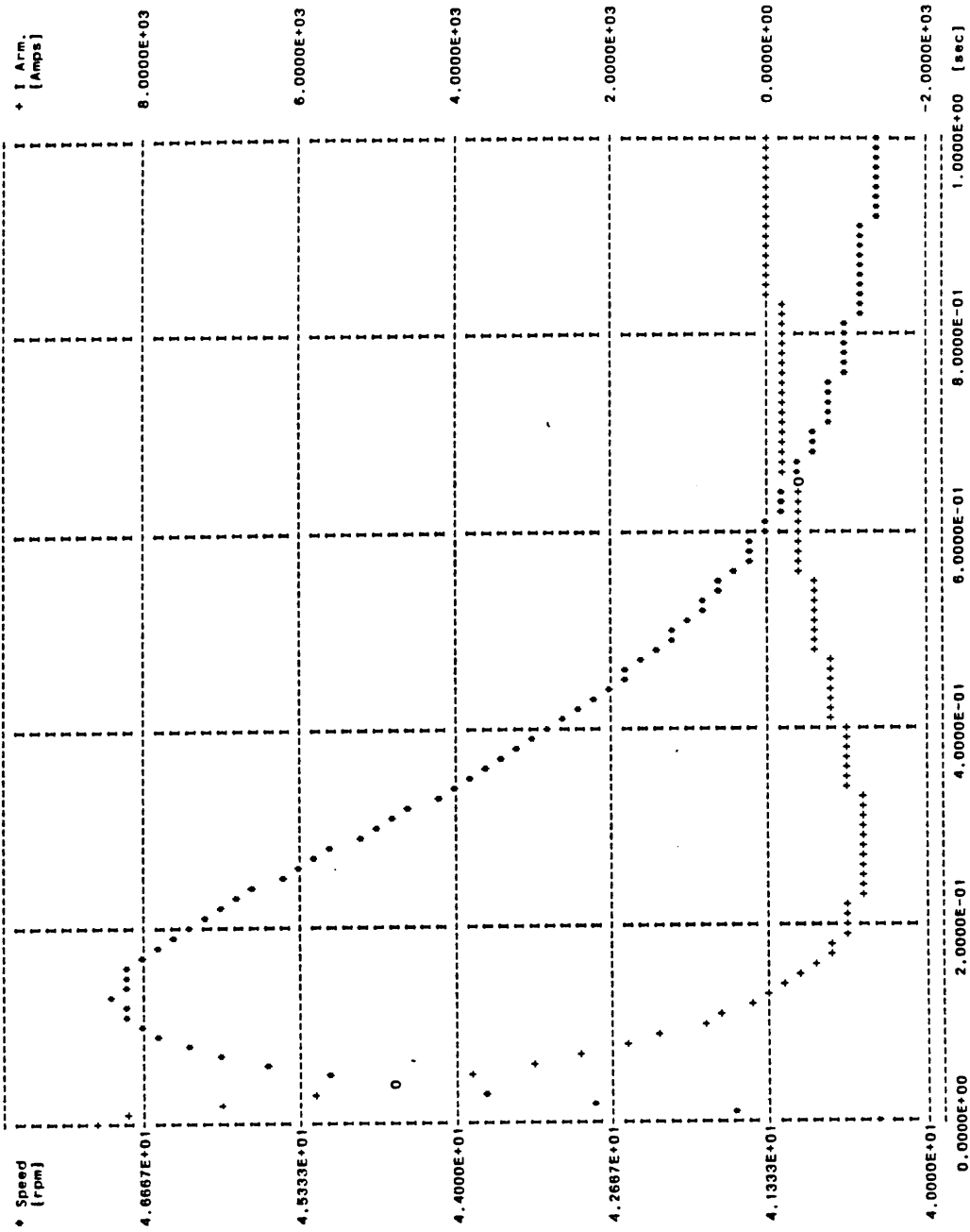


Figure #59. Above Base Speed. Discrete Time SCR. Installed System. Remove Load.



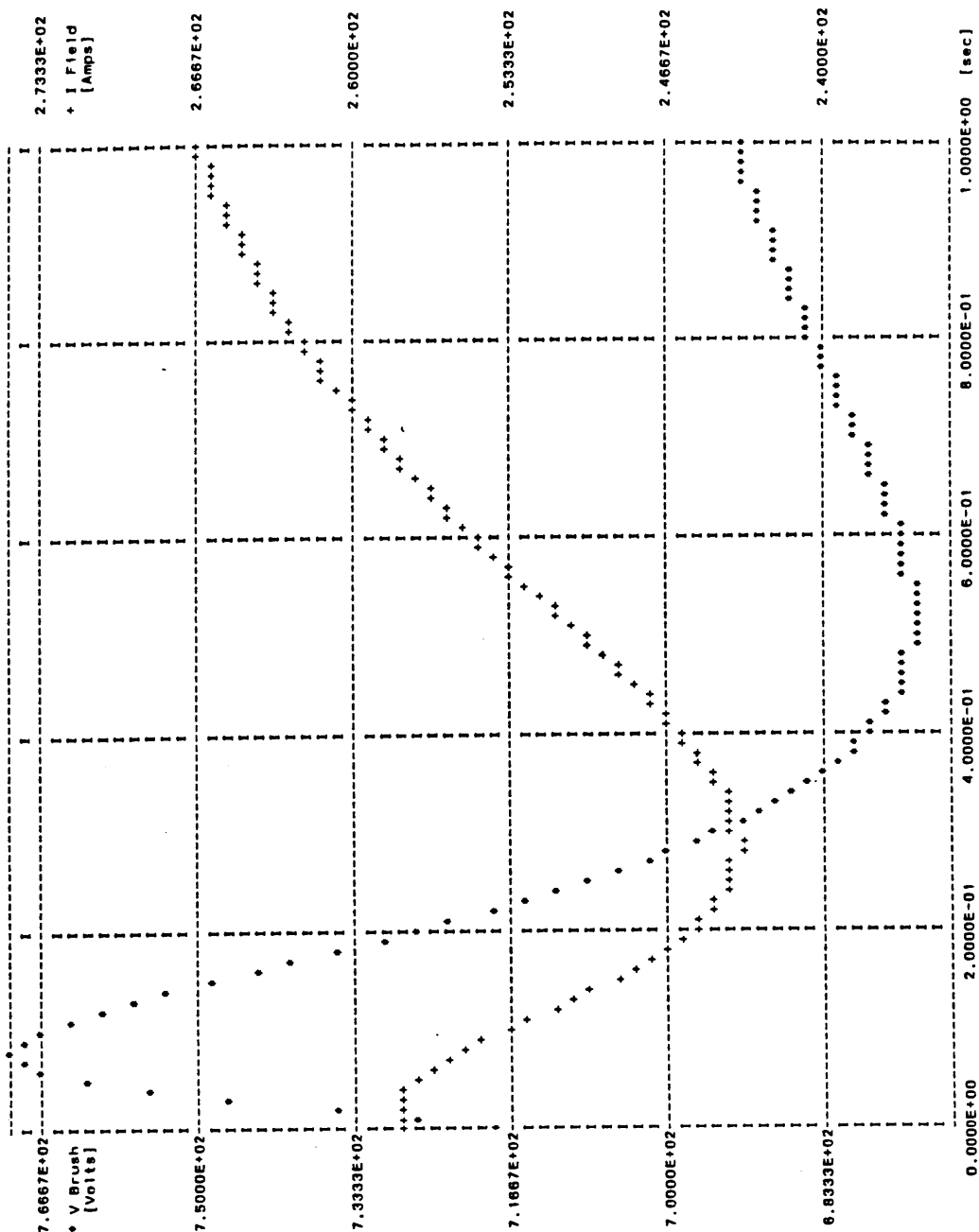


Figure #60. Above Base Speed. Discrete Time SCR. Installed System. Remove Load.

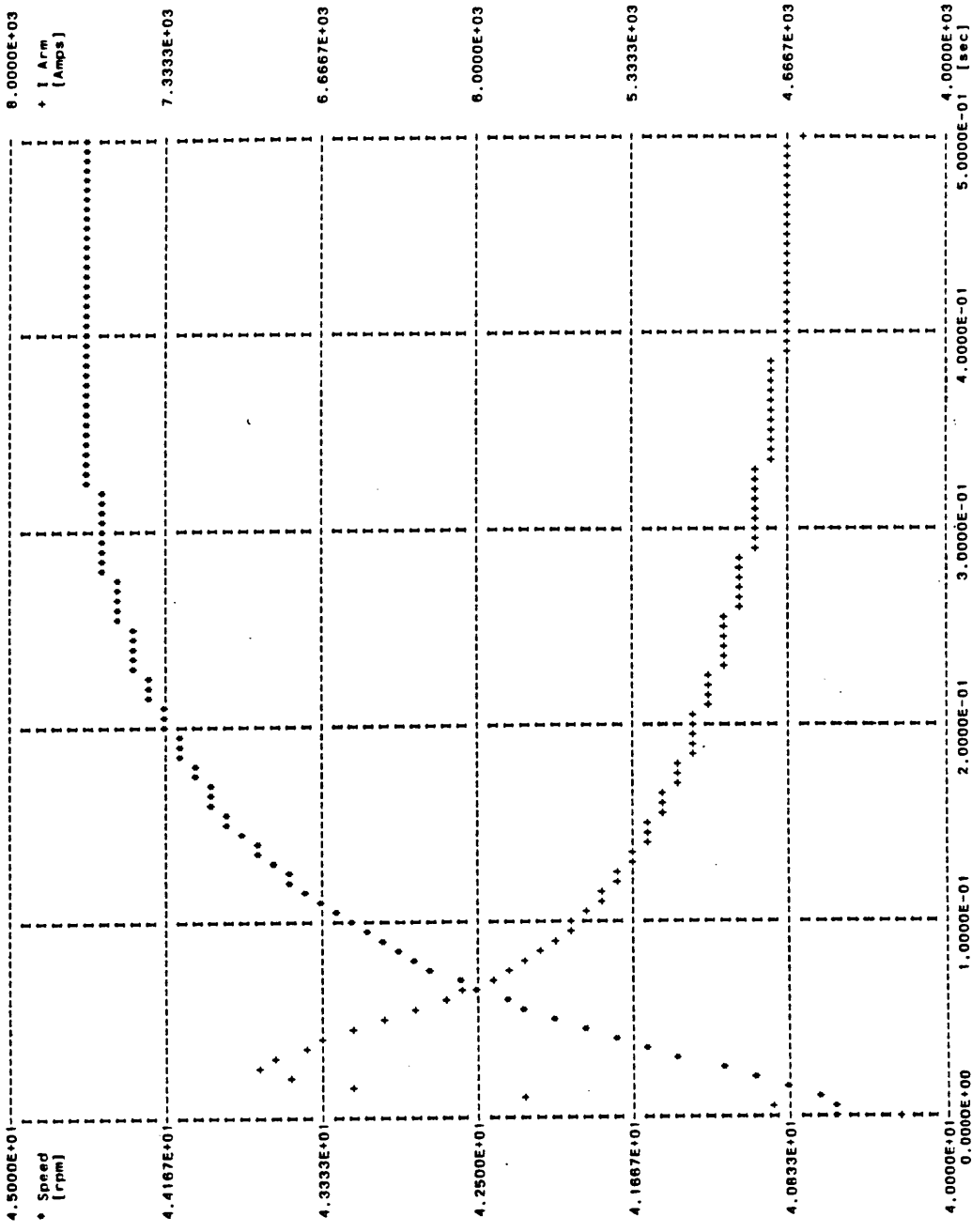


Figure #61. Above Base Speed. Discrete Time SCR. TVR Gain Progr.. Reference Speed Step.

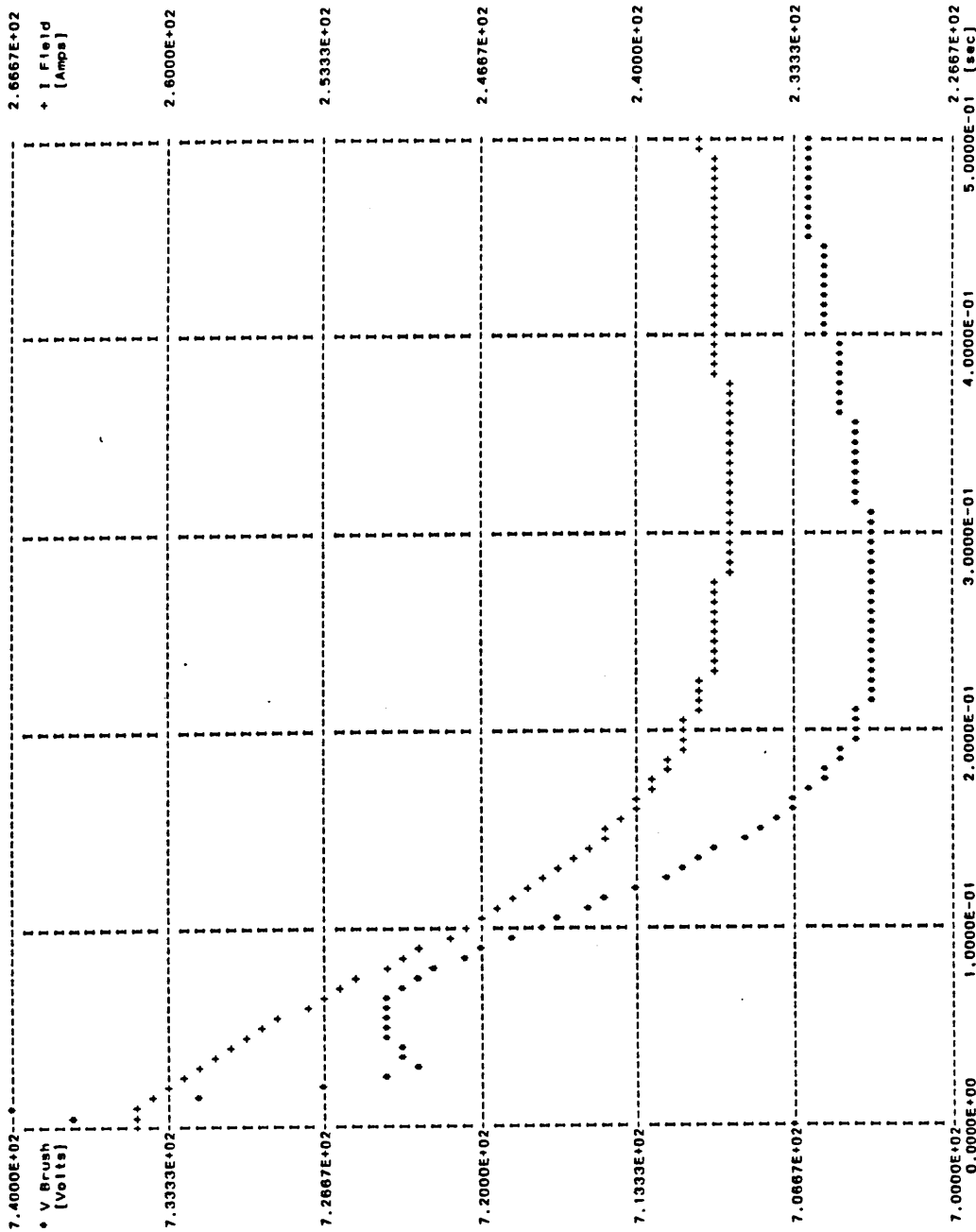


Figure #62. Above Base Speed. Discrete Time SCR. TVR Gain Progr.. Reference Speed Step.

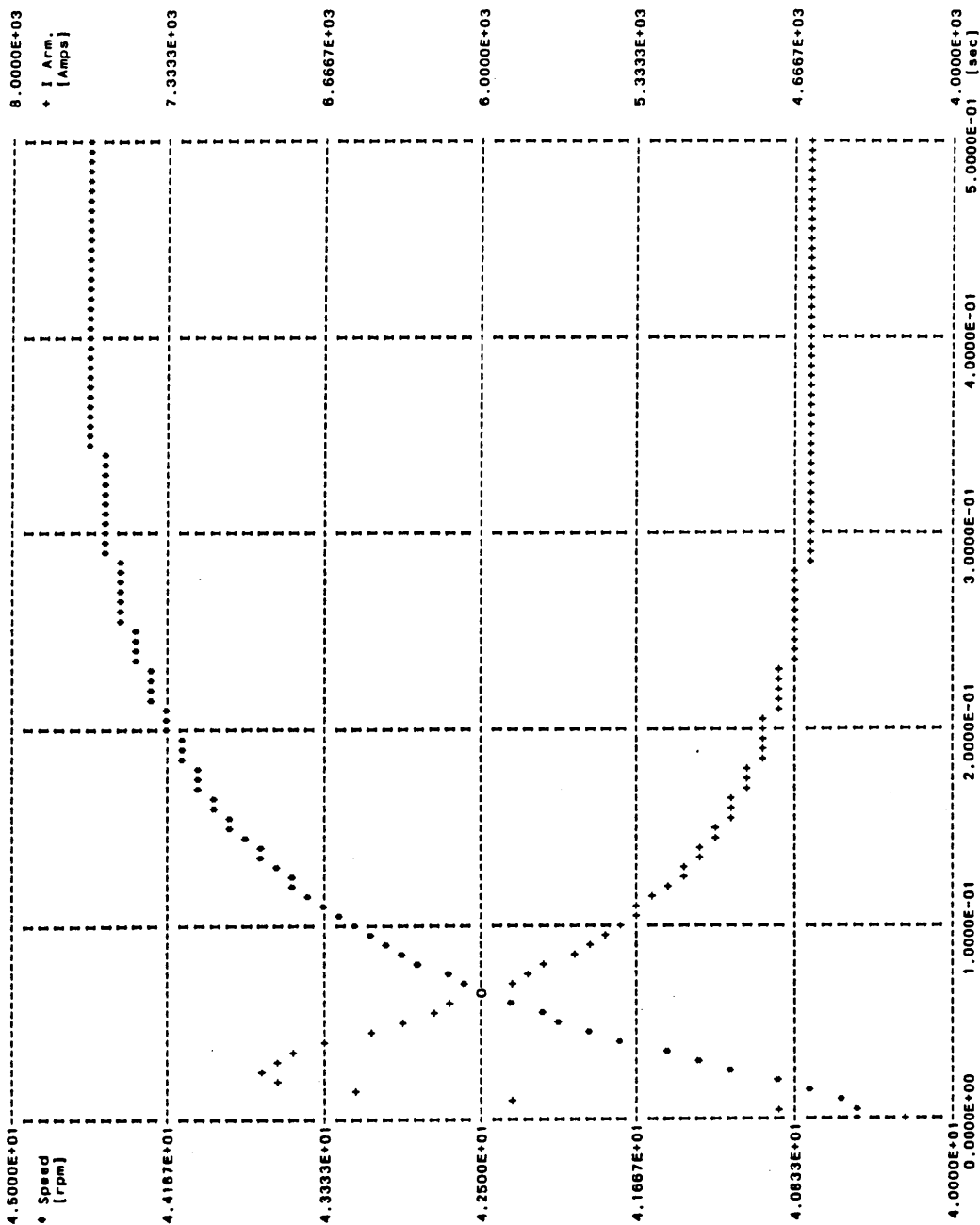


Figure #63. Above Base Speed. Discrete Time SCR. Installed System. Reference Speed Step.

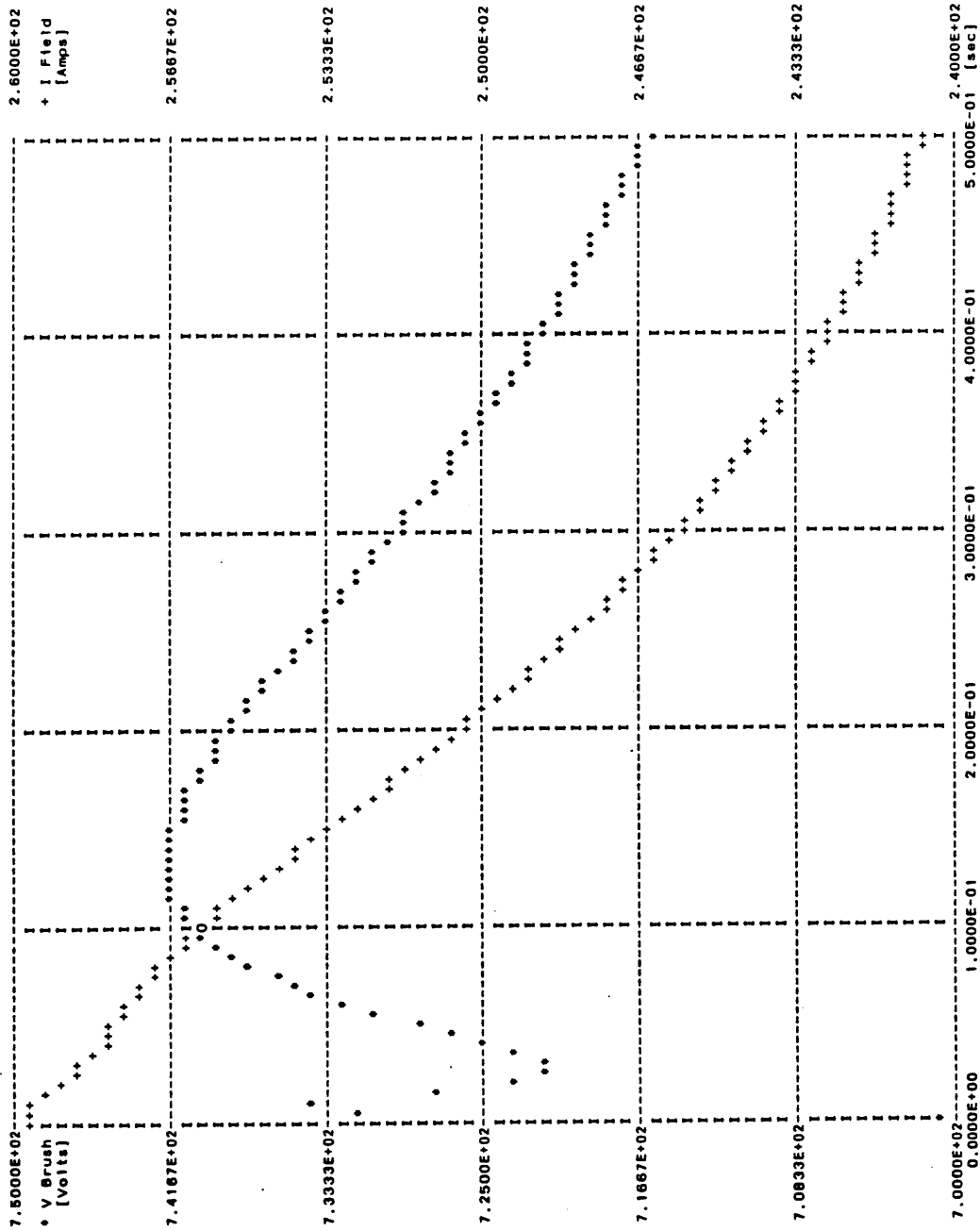


Figure #64. Above Base Speed. Discrete Time SCR. Installed System. Reference Speed Step.

## 5.8 COMPARITION OF BOTH SYSTEMS.

Observing the difference between the existing system and the one with TVR gain programming included, in the second system the brush overvoltage only reaches 5% more than the nominal value of 700 [Volts], meanwhile in the installed configuration it reaches 10% overvoltage.

This difference means that the TVR gain programming configuration can use 5% more armature voltage than the existing scheme, increasing the operational power of the motors by the same amount. Higher armature voltage in the operation, also means better power factor of the conversion system.

## 5.9 OPERATION AT TOP SPEED.

The system is analyzed at top speed.

Only the TVR gain programming scheme is considered because at top speed both TVR loops have the same gain.

The program of appendix 28 is run to reach a steady state at top speed. Output tables are in appendix 38.

Using this steady state as initial condition, the load is increased from 25% to 50%, values related to the nominal load value at base speed. Tables are in appendix 39 and the graphics in figure 65 and figure 66.

The load is then removed. The output table is in appendix 40 and the graphs in figure 67 and 68.

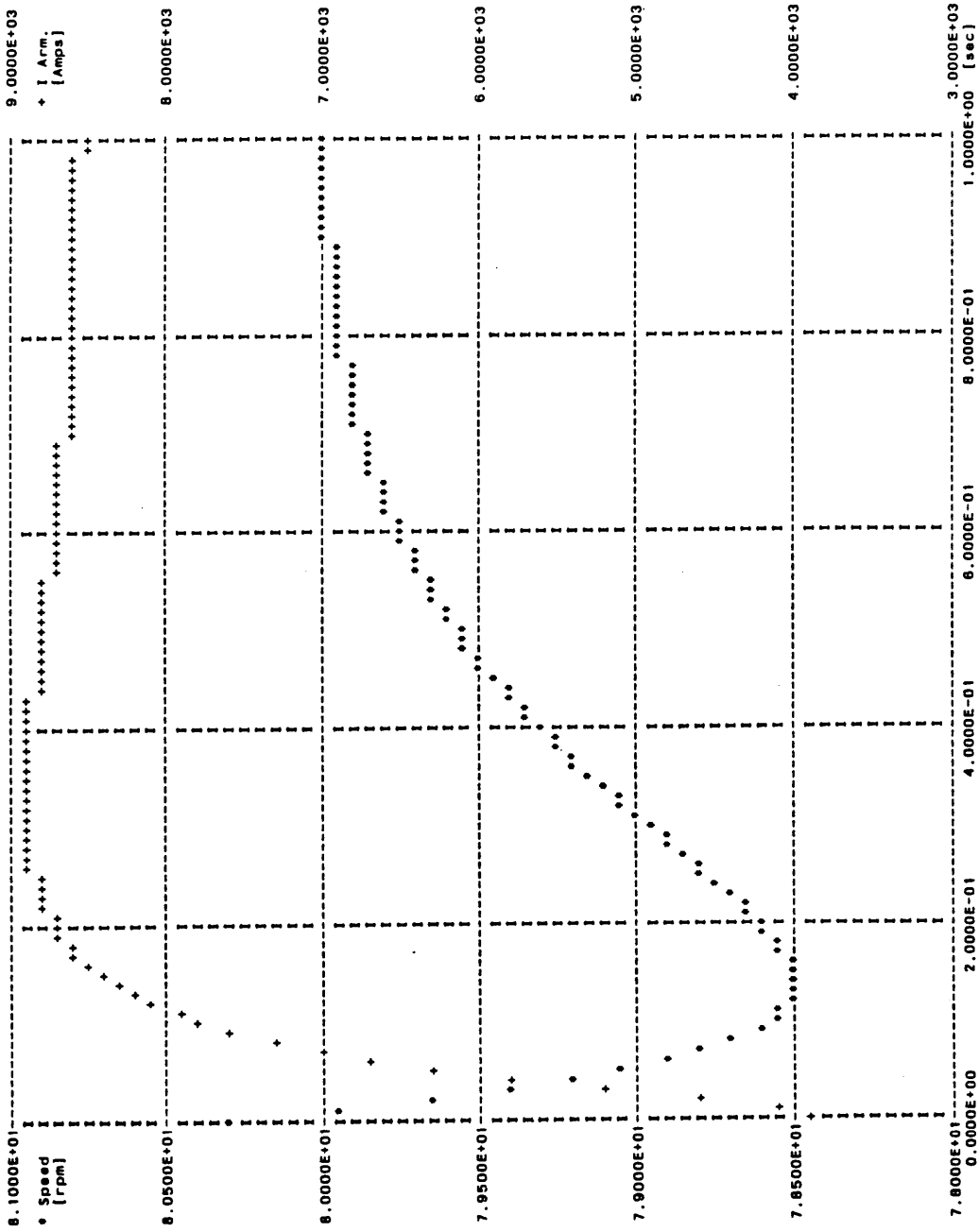


Figure #65. Top Speed, Discrete Time SCR. TVR Gain Progr.. Load Increase from 50% to 100%.

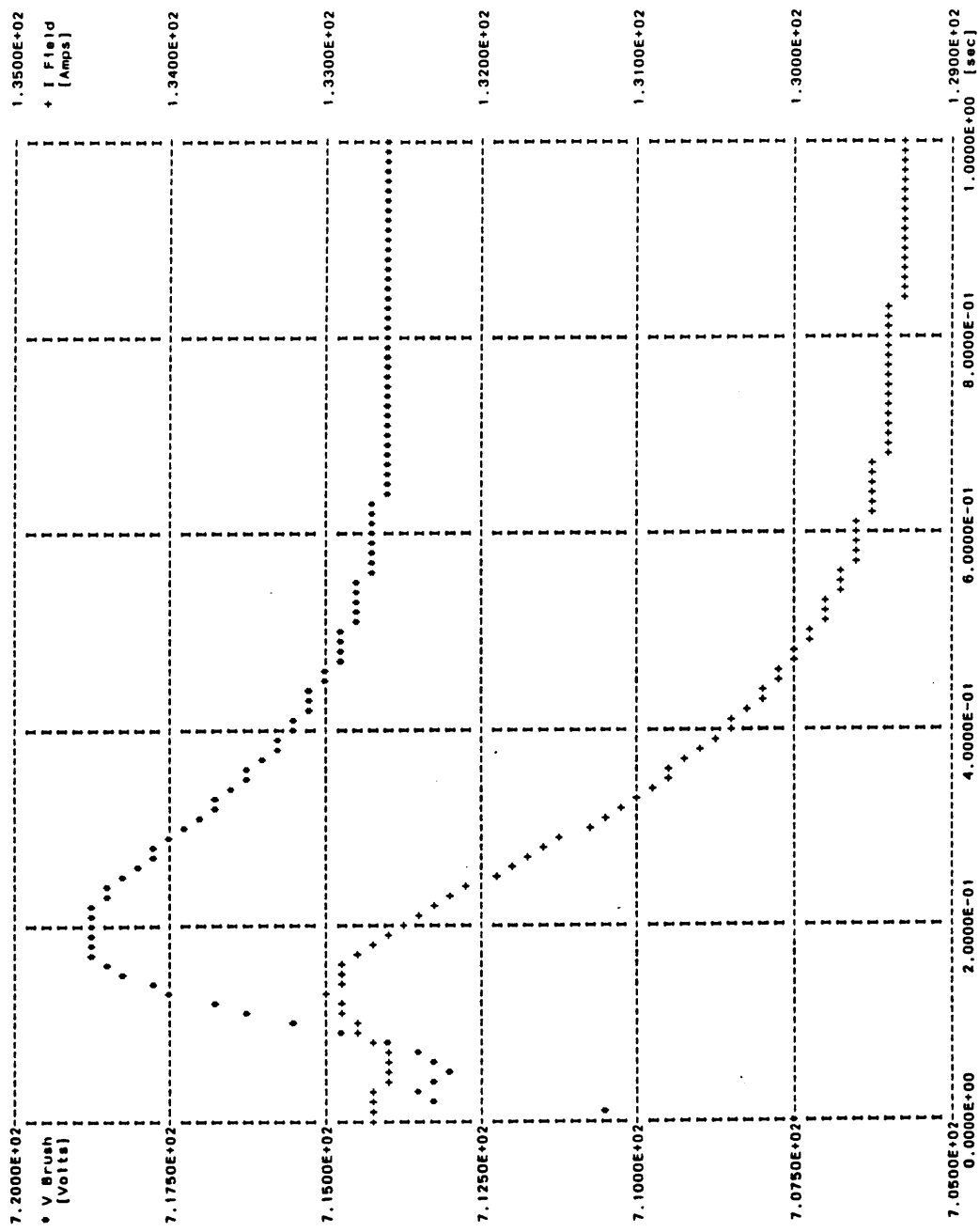


Figure #66. Top Speed. Discrete Time SCR. TVR Gain Progr.. Load Increase from 50% to 100%.



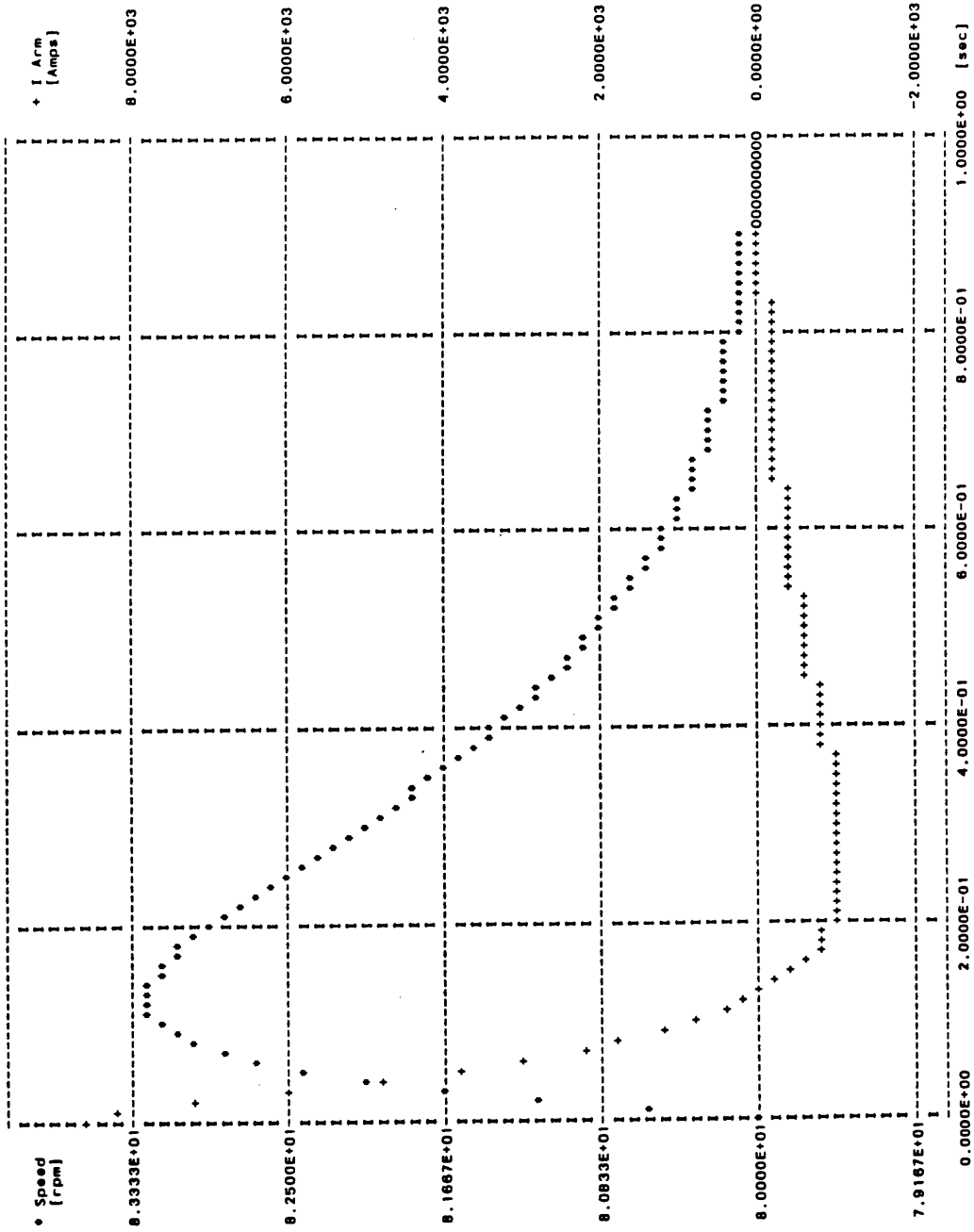


Figure #67. Top Speed. Discrete Time SCR. TVR Gain Progr.. Load Removal.

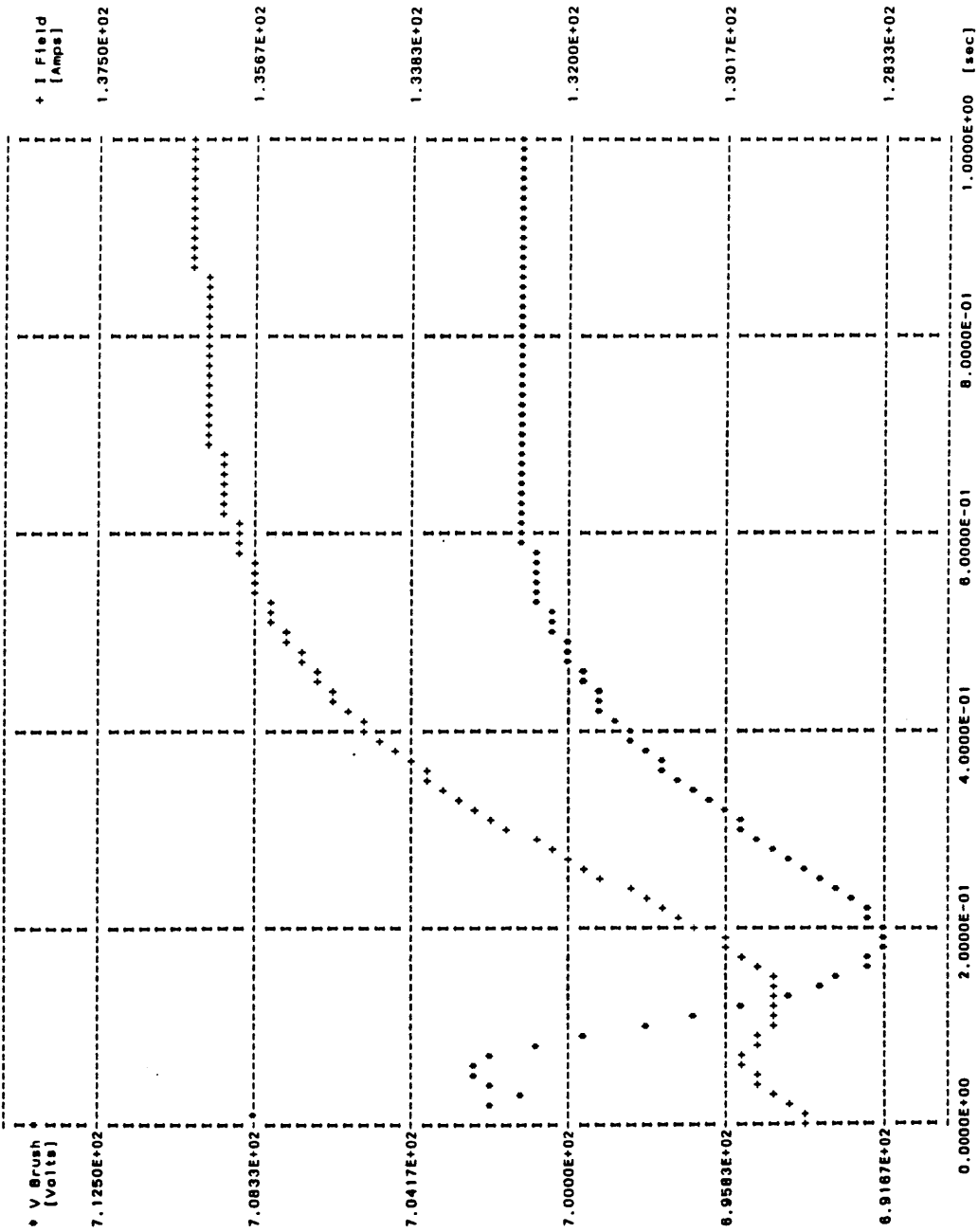


Figure #68. Top Speed. Discrete Time SCR. TVR Gain Progr.. Load Removal.

Running with 25% load, a speed reference step of 2.5% of top speed is applied. Tables are in appendix 41 and graphs in figure 69 and figure 70.

The relationship between variables can be observed in detail.

#### 5.10 CONCLUSIONS.

The discrete time SCR model gives a better approach to reality. The rate current regulator needs to be slowed down to less than 500 [rad/sec] for a stable operation. This fact is also observed in the real equipment.

For a conservative operation the gain was left in 250 [rad/sec], showing a slower capability to correct current perturbations, in relation with the proposed ideal rate of 1200 [rad/sec].

A gain programming in the terminal voltage regulator improves the design of it, controlling better the voltage on the motor brushes.

The motor operational voltage can be raised, increasing the useful power of the motors and the power factor efficiency of the system.

Simulated operation of the model for different conditions in various points of the speed range, allows to observe the variables involved and their relationship, for a better understanding of the control, and to measured

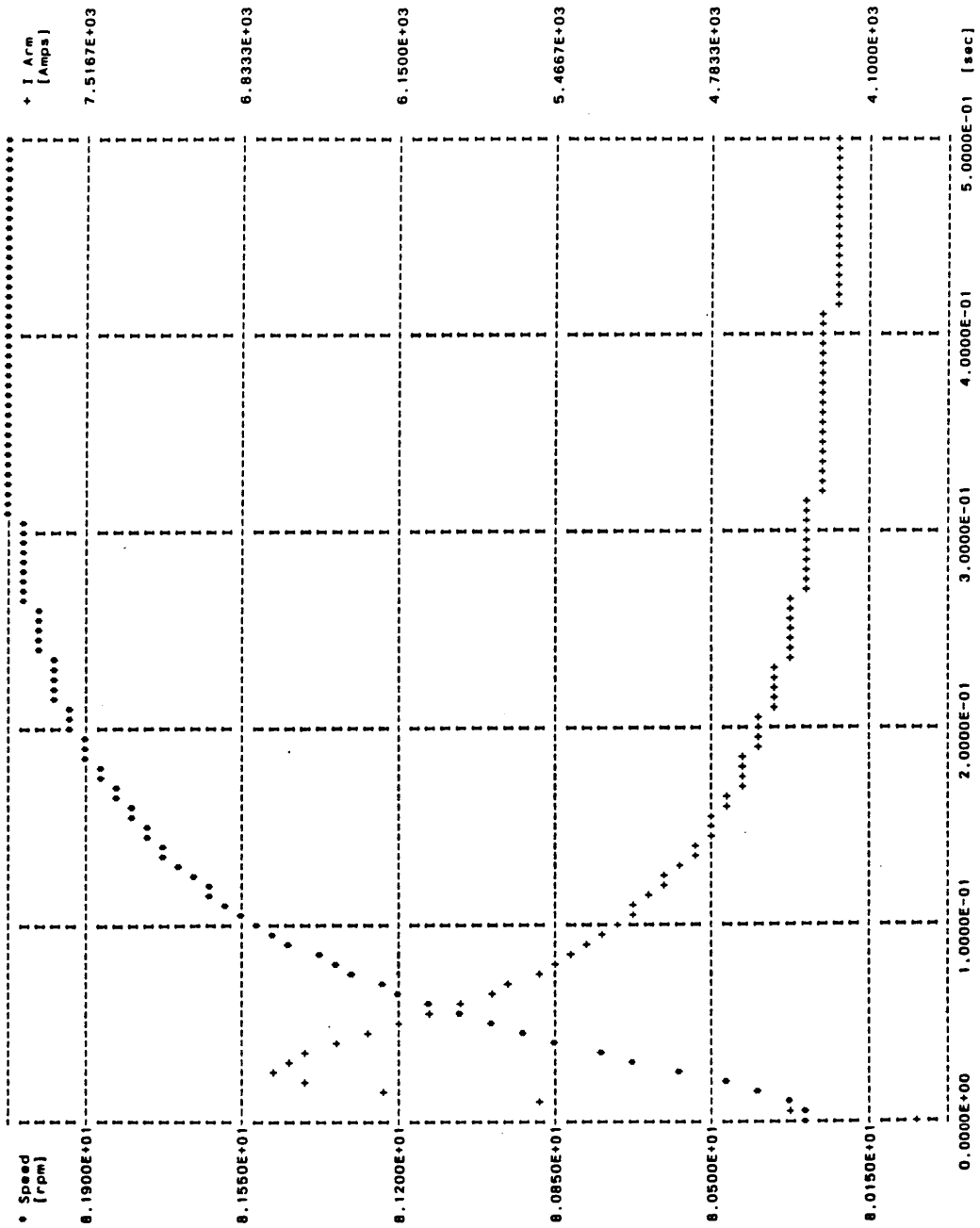


Figure #69. Top Speed. Discrete Time SCR. TVR Gain Progr.. Speed Reference Step.

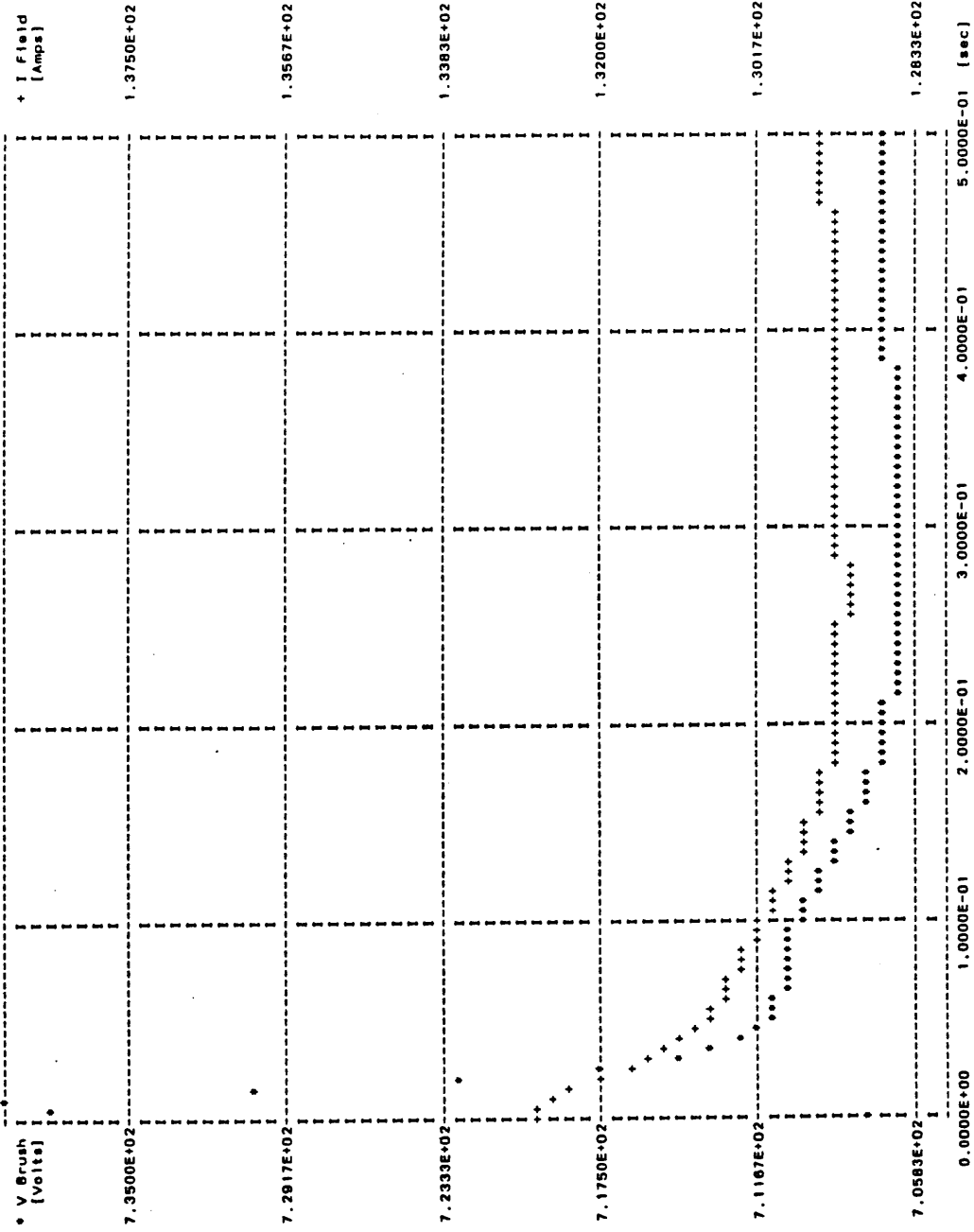


Figure #70. Top Speed. Discrete Time SCR. TVR Gain Progr.. Speed Reference Step.

critical parameters which could damage the motors.

## DIGITAL CONTROL.

### 6.1 INTRODUCTION.

The previous scheme with a discrete time SCR and analog control is treated with the z-transform analysis and the results compared with the model output.

Then, a digital control, working between SCR firings, is proposed and the design solved.

### 6.2 Z-TRANSFORM ANALYSIS OF THE DISCRETE TIME SCR AND ANALOG CONTROL.

The armature rate current is the fastest inner loop, then it is the most dependable of the discrete time SCR.

The original design rate current loop, from figure 1 is shown now with the discrete time SCR in figure 71.

After simplification, the current rate loop is shown again in figure 72.

The lead at 342 [rad/sec] is moved to 100 [rad/sec], because the loop response is going to be decreased from the original proposed value of 1200 [rad/sec].

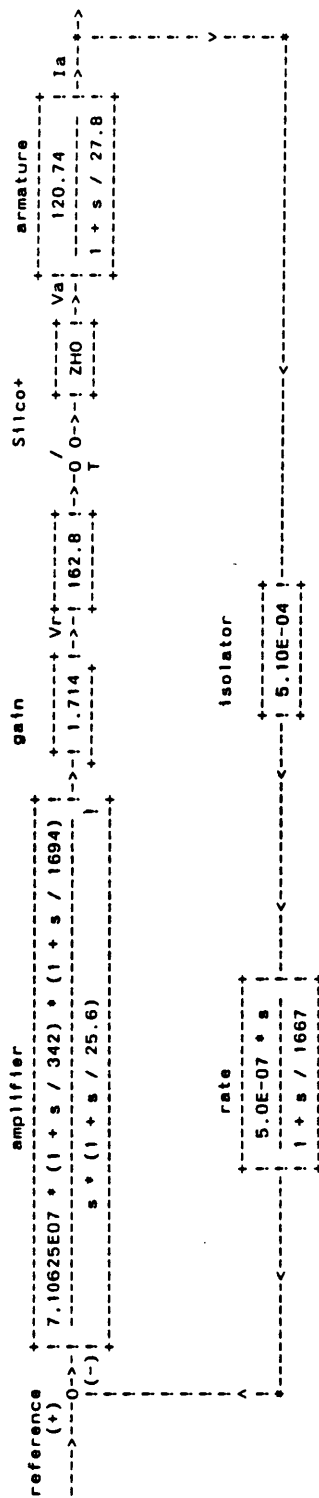


Figure # 71. Discrete Time SCR, Current Rate Regulator Block Diagram.



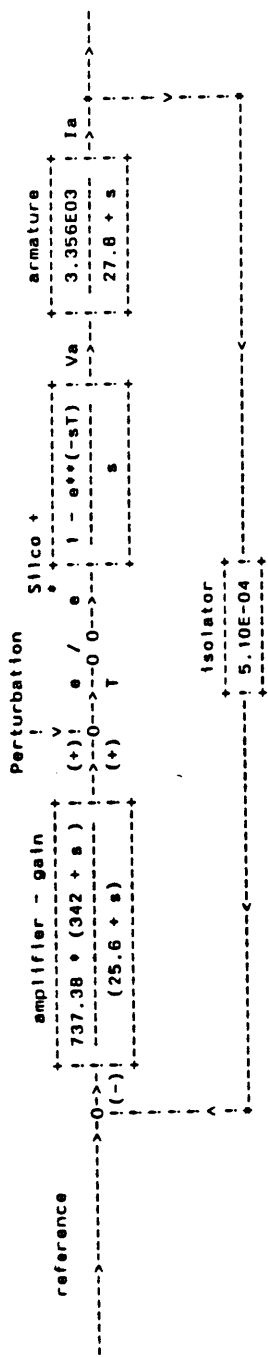


Figure #72. Current Rate Regulator. Simplified Block Diagram.

Also a perturbation signal is added before the SCR. The model is shown in figure 73.

Combining the blocks function of  $s$ , the open loop transfer function is:

$$H(s) = (1 - e^{-(sT)}) * \frac{1262.2 * (100+s)}{s * (25.6+s) * (27.8+s)}$$

The Laplace transform of the sampled or impulse modulated signal transfer function is:

$$H^*(s) = (1 - e^{-(sT)}) * \left( \frac{1262.2 * (100+s)}{s * (25.6+s) * (27.8+s)} \right)^*$$

and the closed loop sampled transfer function is:

$$Y^*(s) = \frac{H^*(s)}{1 + H^*(s)}$$

To express the open loop function in  $z$ -transform,  $e^{-(sT)}$  is replaced by  $z$ . In the first factor the replacement is direct. The second factor is separated in terms.

$$\frac{1262.2 * (100+s)}{s * (25.6+s) * (27.8+s)} = \frac{177.35}{s} - \frac{1667.4}{25.6+s} + \frac{1490}{27.8+s}$$

The equivalent  $z$ -transform terms are found in the  $z$ -transform table. (Book reference 7, page 304).

The open loop  $z$ -transform transfer function is:

$$H(z) = (1 - z^{-1}) * \left( \frac{177.35 * z}{z - 1} - \frac{1667.4 * z}{z - e^{-25.6 * T}} + \frac{1490.0 * z}{z - e^{-27.8 * T}} \right)$$

After plugging the sampling time  $T=0.00278$  [sec] and



algebraic manipulating the expression, it yield:

$$H(z) = \frac{-0.05 z^{**2} + 3.8221 z - 2.861}{z^{**2} - 1.857042 z + 0.8621432}$$

Utilizing the program LOCUS, shown in appendix 42, the output table with the root locus information is obtained. It is shown in appendix 43.

The model response is done for three values of gain to compare the model results with the z-locus values.

With open loop zeros at 0.756018 and 75.686, the poles for different gains are:

K=0.6 ; 0.7402 and -1.1899 (unstable)  
 K=0.5 ; 0.7363 and -0.791 (stable)  
 K=0.2 ; 0.44 and 0.65 (stable)

The model response to a perturbation, for K=0.6, is in figure 74, which is unstable.

For K=0.5, the response is in figure 75, being now stable.

For a more conservative gain of K=0.2, the response is in figure 76, being also stable.

The input to the system, in which the sampling or impulse-modulated analysis was done is a perturbation before the sampling.

The theory and the model are coherent, for K=0.5 the loop is stable and for K=0.6 the loop is unstable.

The real reference is in between function of s blocks. The correlative theoretical development is not straight forward in this case, as it was before for a reference at

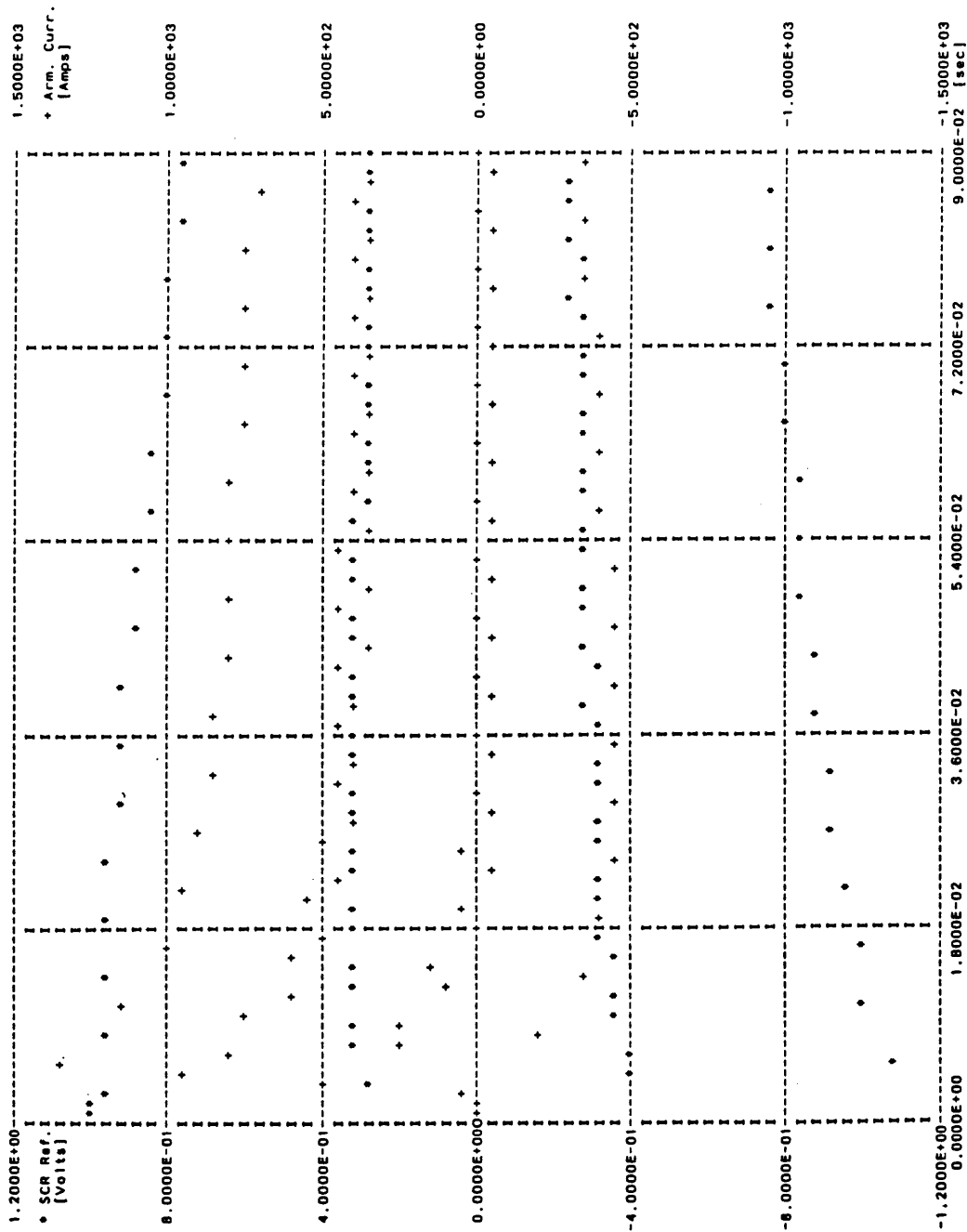


Figure #74. Response to a Perturbation. Z-Transform Application. K=0.6.

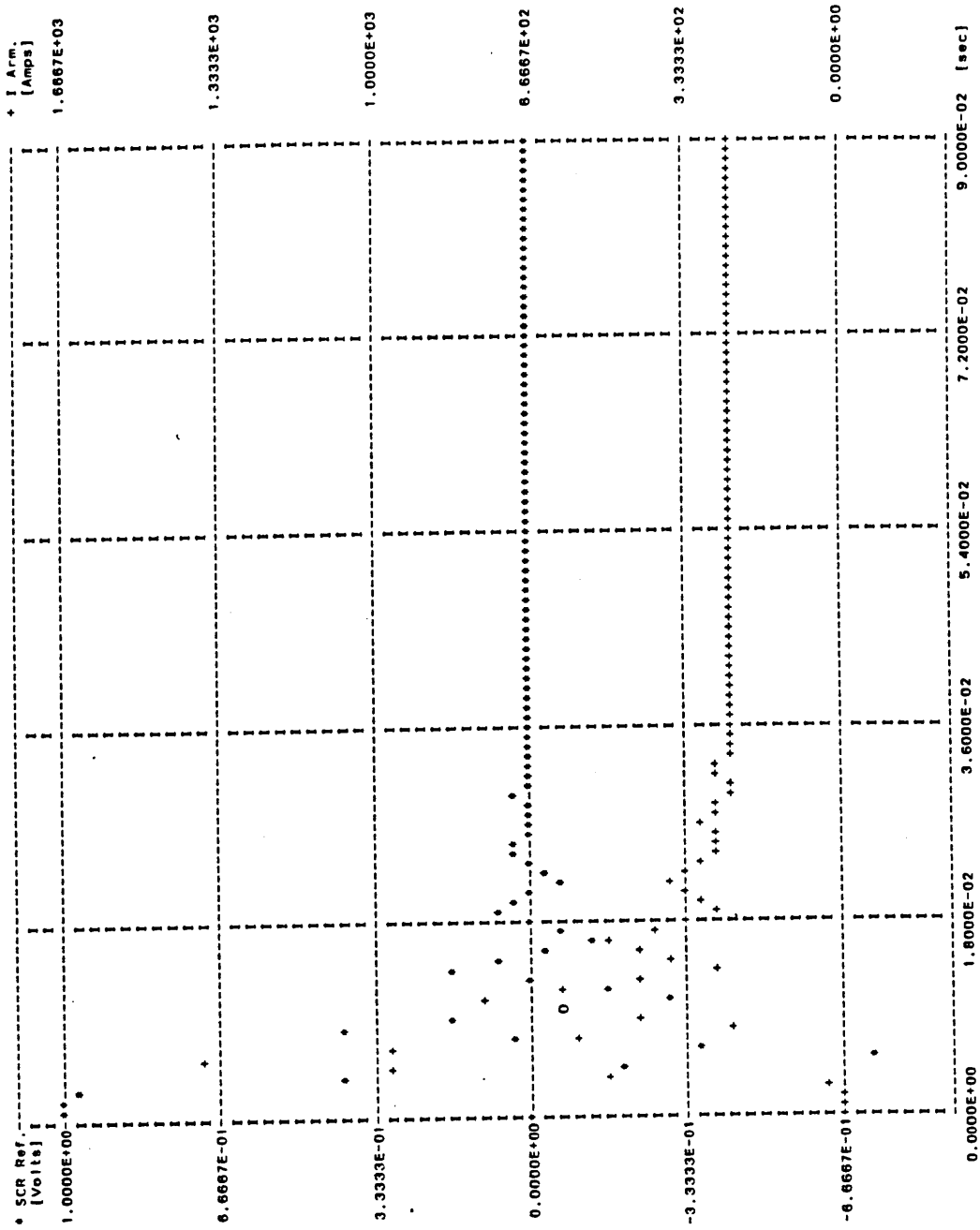


Figure #75. Response to a Perturbation. Z-Transform Application. K=0.5.

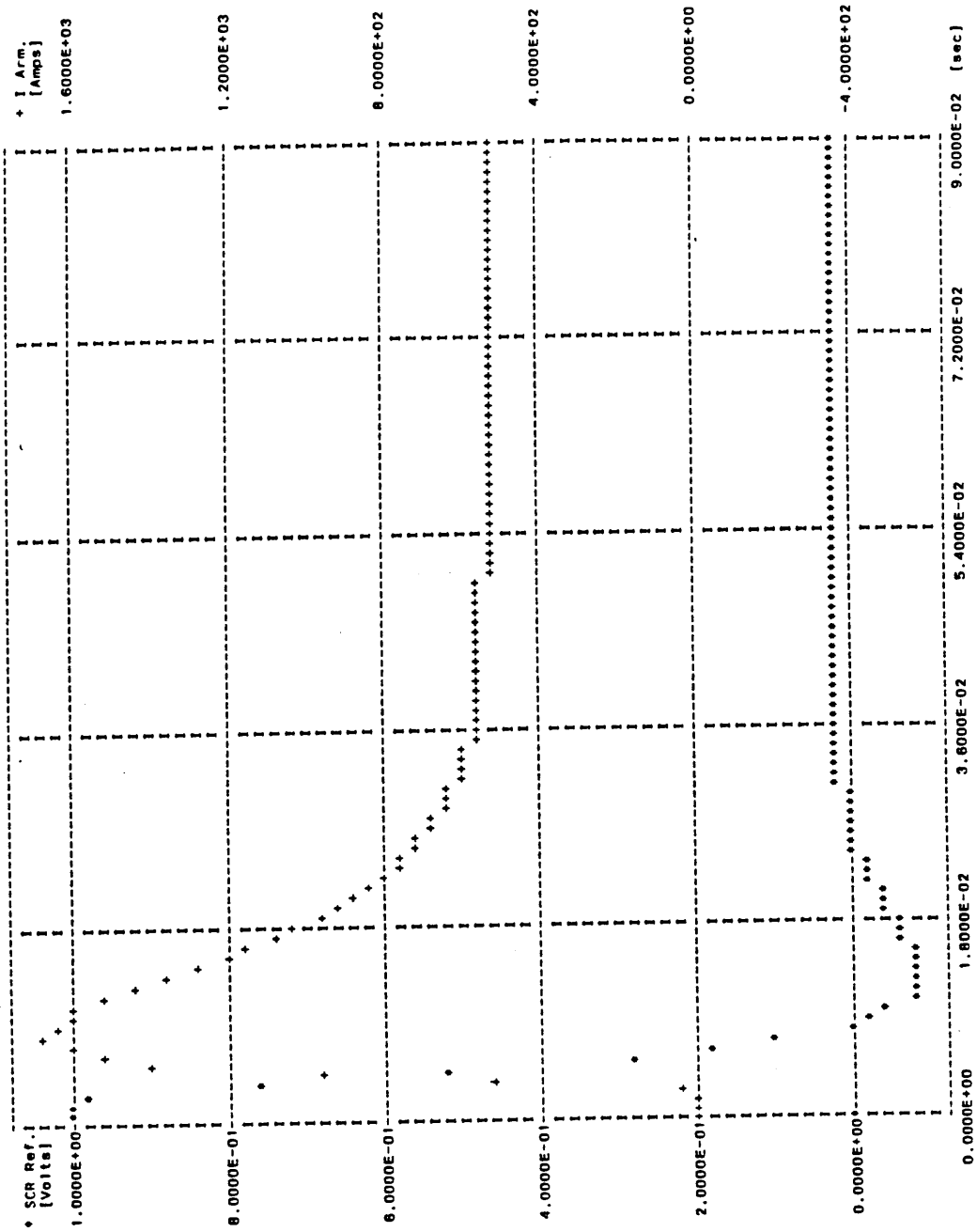


Figure #76. Response to a Perturbation. Z-Transform Application. K=0.2.

the end of the  $s$  blocks. The stability depends anyhow of the closed loop characteristic, which is the same in both cases.

To show that, the response of the model is done now for an input step reference.

The response for  $K=0.6$  is in figure 77, being again unstable, and for  $K=0.5$ , the response is in figure 78, also stable, and for the conservative gain of  $K=0.2$  the response is in figure 79, stable.

### 6.3 THE DIGITAL REGULATOR.

Replacing the analog regulator for a digital one, it means that calculation and I/O time is required. An extra sweep time, which is considered of 0.00278 [sec], imposes a significant burden to the loop.

Figure 80 shows a scheme of the system.

Proceeding with the design of the digital control, the discrete equivalent method is applied to the previous design, but some modifications need to be accomplished.

To avoid a direct path between input and output, and calculate all outputs, as it is in the real mechanism,  $D(z)$  tends to zero when  $z$  tends to infinite.

An extra pole at a frequency much higher than the crossover is added for that purpose.

The delay in the operation forces to reduce the time



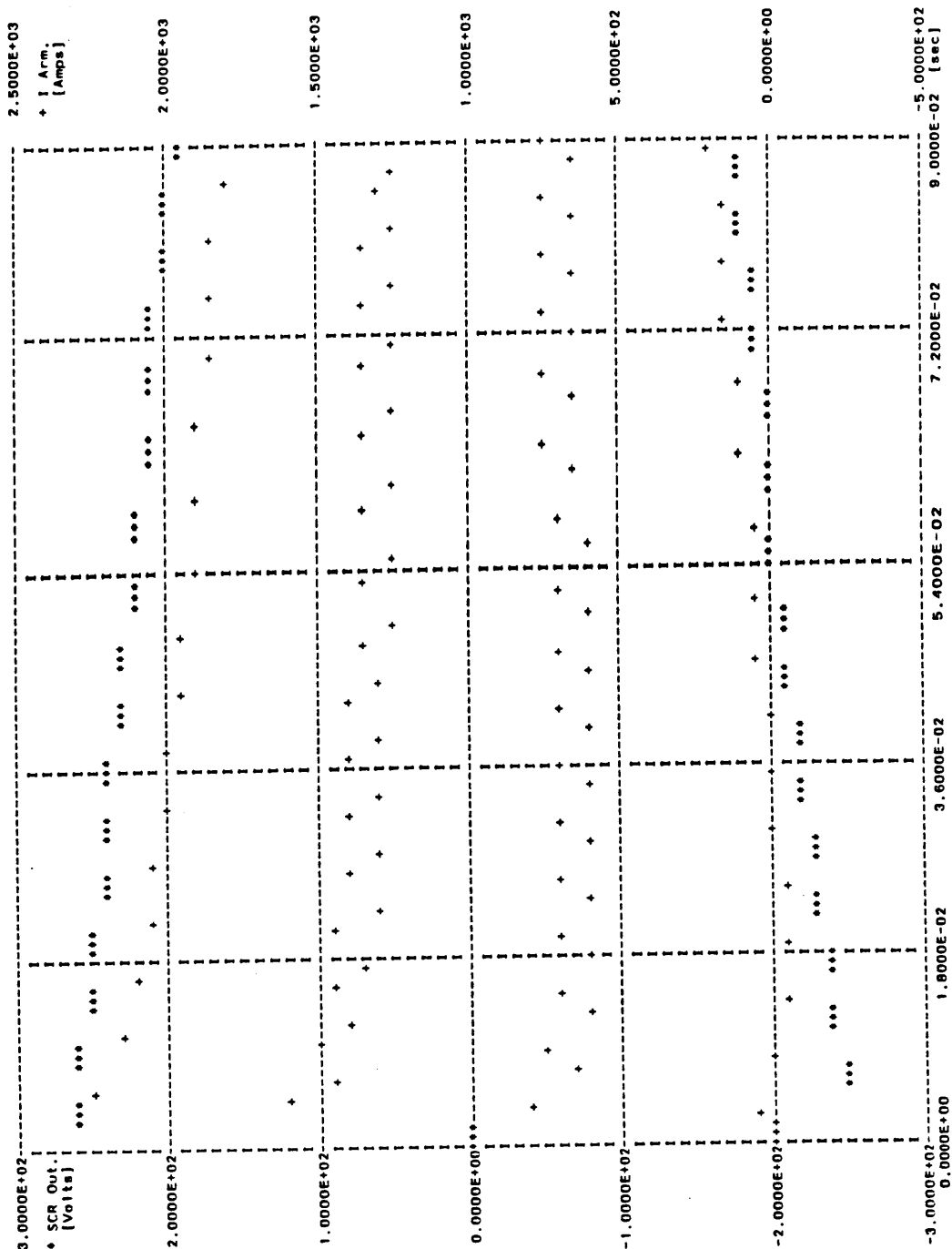


Figure #77. Step Input Response. Z-Transform Application. K=0.6.

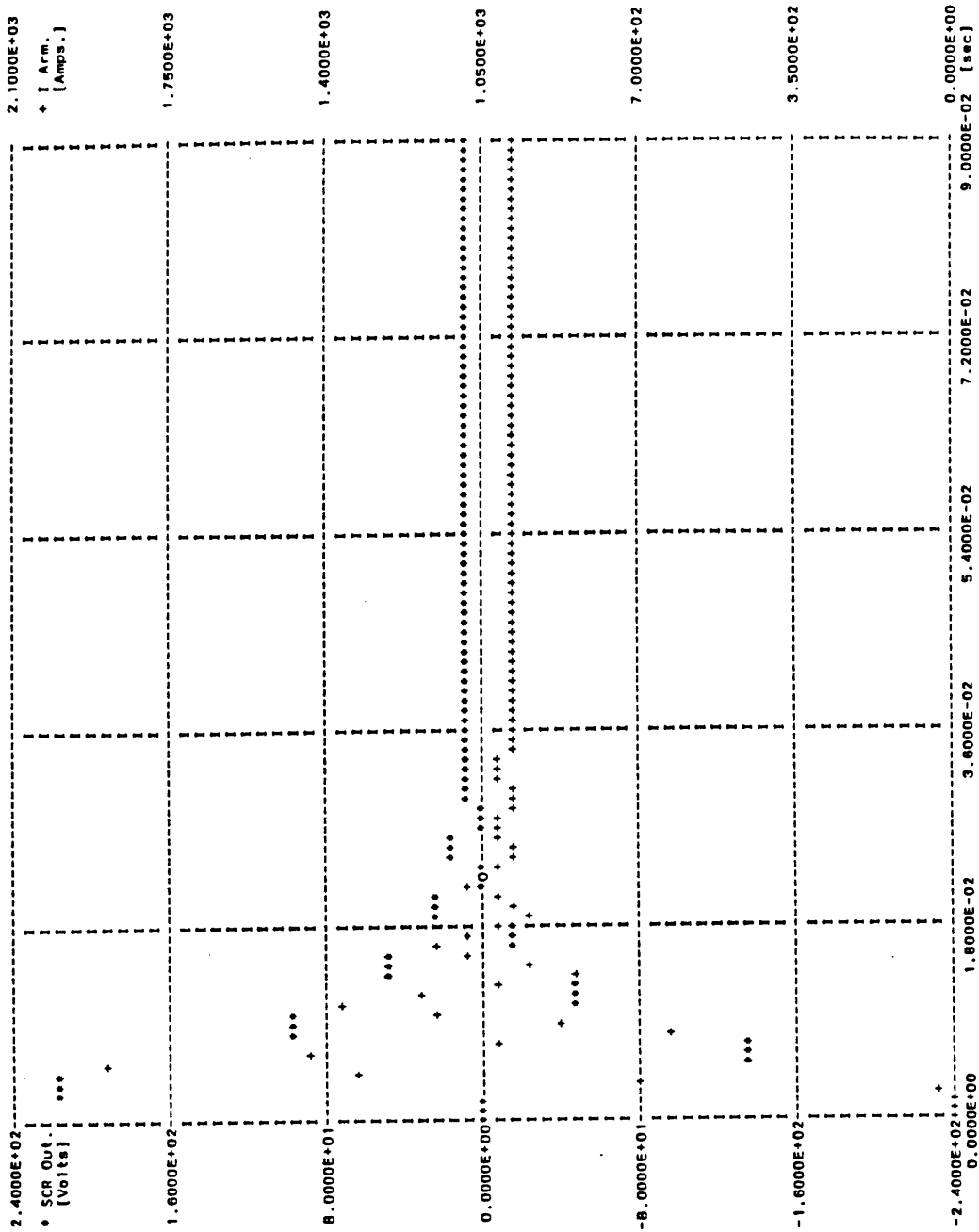


Figure #78. Step Input Response. Z-Transform Application. K=0.5.

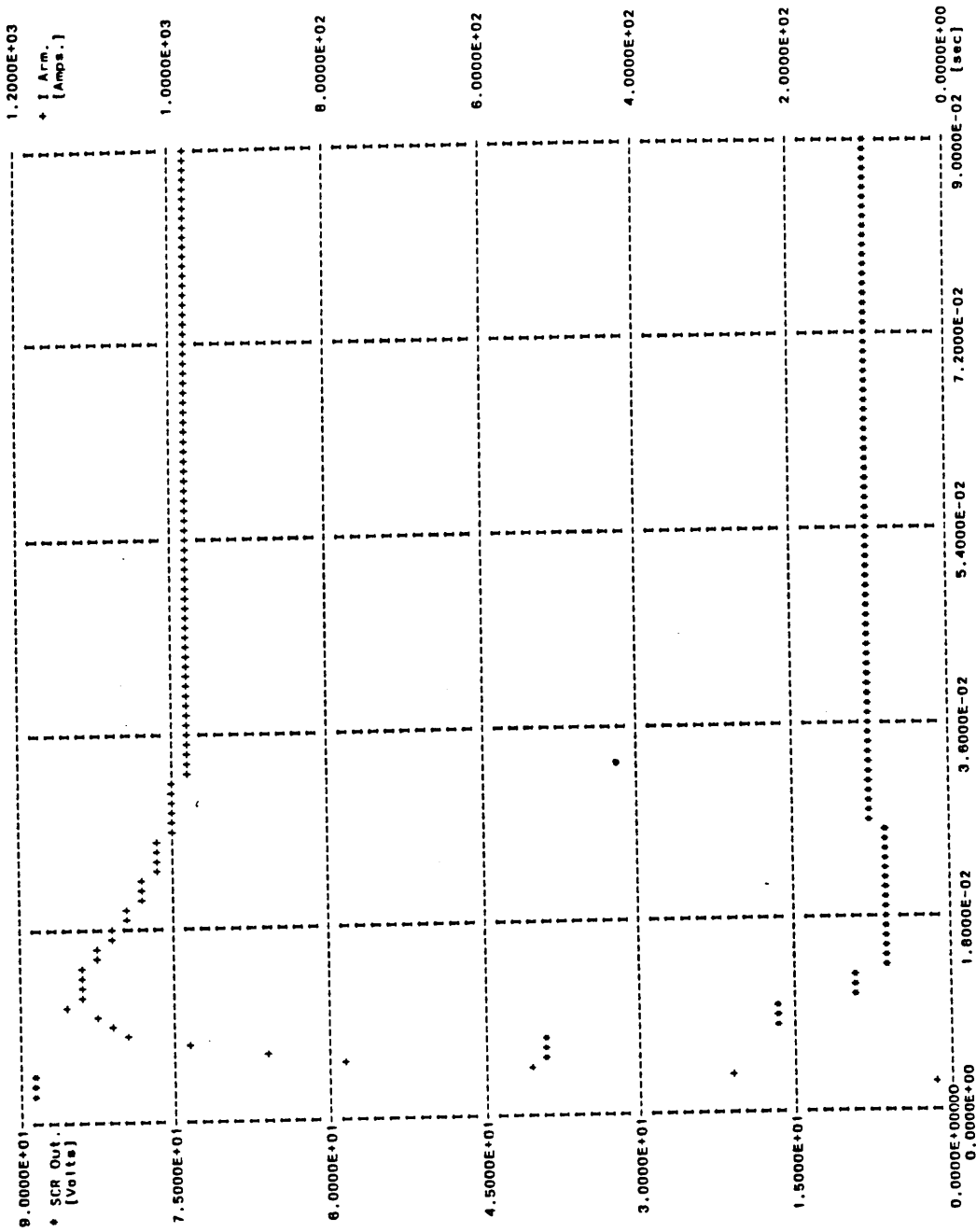


Figure #79. Step Input Response. Z-Transform Application. K=0.2.

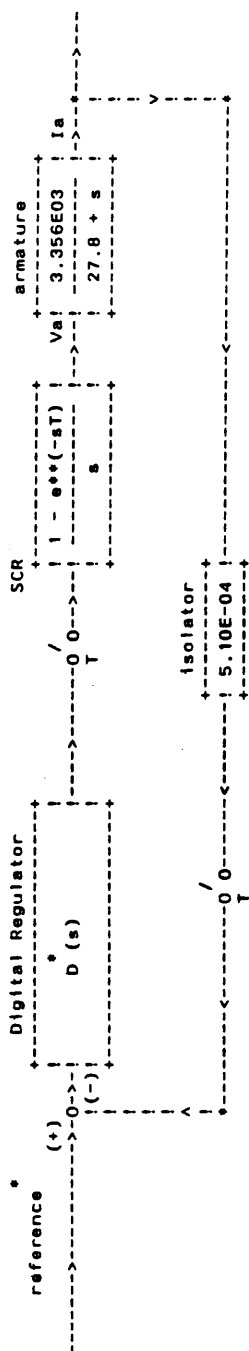


Figure #80. Current Rate Digital Regulator Block Diagram.

response or the crossover point. It is necessary, then, to reduce also the frequency of the lag-lead at 25.6 and 100 [rad/sec]. For simplicity, the lag-lead is eliminated.

The analog equivalent has been reduced to:

$$D(s) = \frac{K * 737.38 * 1000}{(1000 + s)},$$

and the discrete equivalent is:

$$D(z) = C * \frac{1}{z - e^{*(-1000*T)}}$$

To calculate C,

$$C * \frac{1}{z - 0.06203851} \Big|_{z=1} = K * \frac{0.73738E06!}{1000 + s} \Big|_{s=0}$$

$$C = K * 0.69163404E03.$$

The transfer function of the control is:

$$D(z) = K * \frac{0.69163404E03}{z - 0.06203851}$$

The Laplace transform of the impulse modulated signal open loop transfer function is:

$$H(s) = (1 - e^{*(-s*T)}) * D(s) * (G/s)$$

To express the open loop transfer function in z-transform, z replaces e^{\*(s\*T)}, D(z) replaces the second factor and the third is separated in terms.

The plant transfer function G, contains the armature circuit and the current feedback isolation network.

$$\frac{G(s)}{s} = \frac{3356.57 * 5.10E-04}{s * (27.8 + s)}$$

Separating in terms, yields:

$$\frac{1.7118507}{s * (27.8+s)} = \frac{0.06157736}{s} - \frac{0.06157736}{27.8 + s}$$

Converting these terms to z-transform, looking at the conversion table, and writing them in the open loop expression, it results in:

$$H(z) = \frac{z^{-1}}{z} * K * \frac{0.69163404E03}{z-0.06203851} * 0.06157736 * \left( \frac{z}{z-1} - \frac{z}{z-0.925684} \right)$$

After algebraic manipulation, it yields:

$$H(z) = K * \frac{3.16504}{(z - 0.06203851) * (z - 0.925684)}$$

The program LOCUS of appendix 42 is run, and the locus points are in appendix 44. With these values, the locus is traced in the z-plane of figure 81.

The gain  $k=0.1$  is chosen, with poles in  $0.493861+j0.360601$  and its conjugate. From the figure, the damping ratio is 0.62 and the natural frequency 282.51 [rad/sec].

The typical time response for a continuous second order system with such parameters are:

$$\begin{aligned} T_{resp} &= 1.8/W_n \\ T_{resp} &= 0.006371 \text{ [sec]}, \end{aligned}$$

with an overshoot of 5%.

These typical curves are shown in book reference 7, page 101.

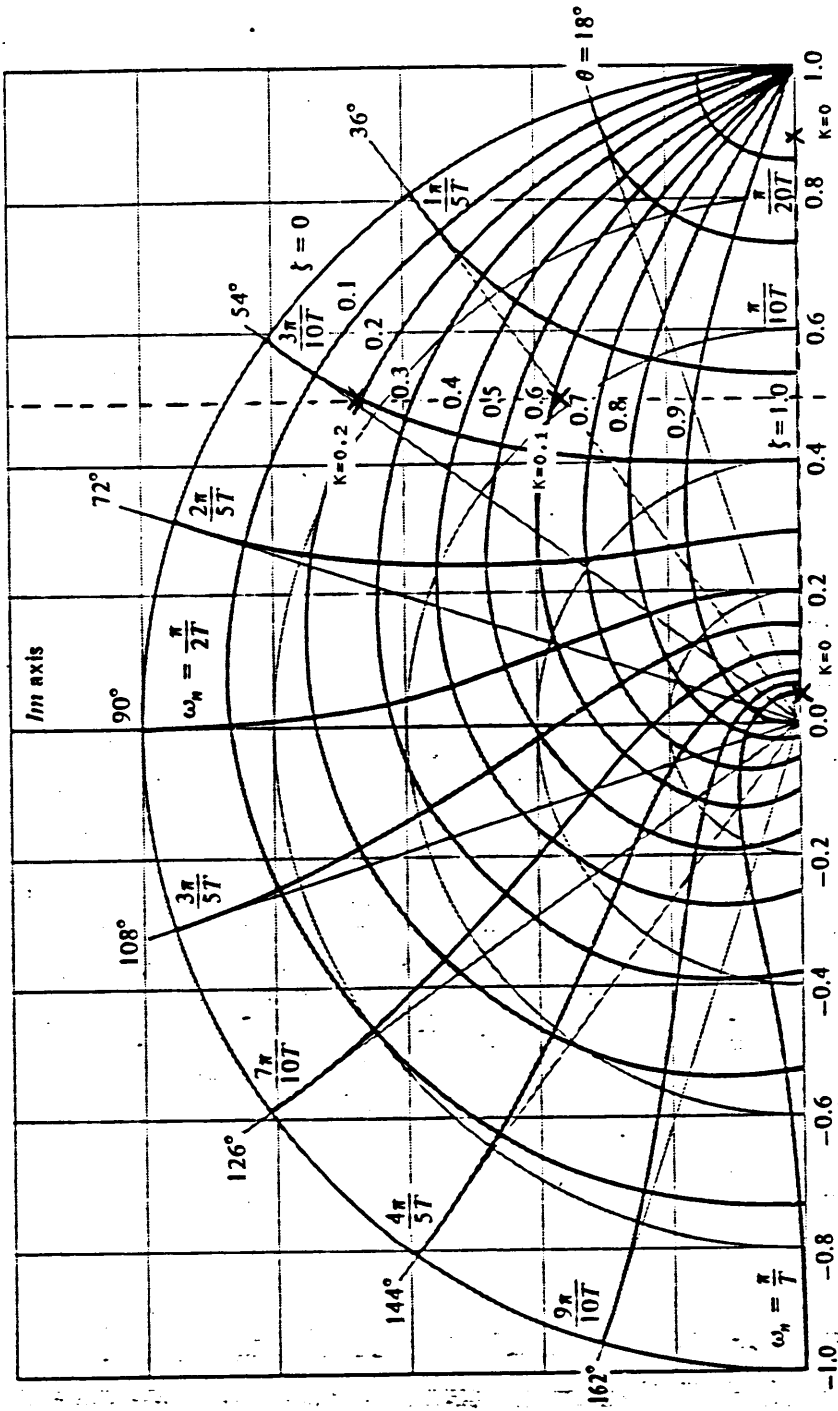


Figure #81. Digital Current-Rate Regulator.

### 6.3.1 Digital Current Rate Regulator Model.

The program ITERATION of appendix 45 has the model which emulates the digital regulator, the discrete SCR and the analog plant.

The block diagram is shown in figure 82.

The difference equation, included in the program, is synchronized with the firing of the SCR.

The output of the program is in appendix 46, and its graph in figure 83.

The measured time delay is 0.009 [sec] and the overshoot 7.5%.

The criterion to measure the time delay, is the time from zero to 63% of the final value, because there is a significant dead time at the beginning of the action. In this particular case is two sweeps.

The 10% to 90% criterion ignores the delay, giving a false much faster behavior, so the other concept is better suited to measured, for this application.

### 6.3.2 Digital Current Regulator.

Following the same scheme of the analog regulator, the current rate loop gets its reference from an integrator. The input of the integrator, which represents rate of change of current, it is limited to the maximum values tolerated by the driven motor.



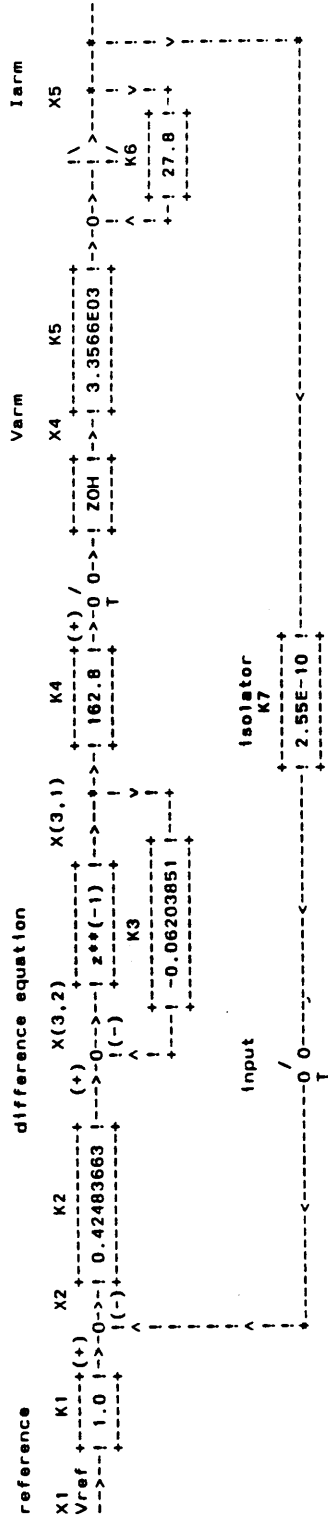


Figure #82. Current Rate Digital Regulator.

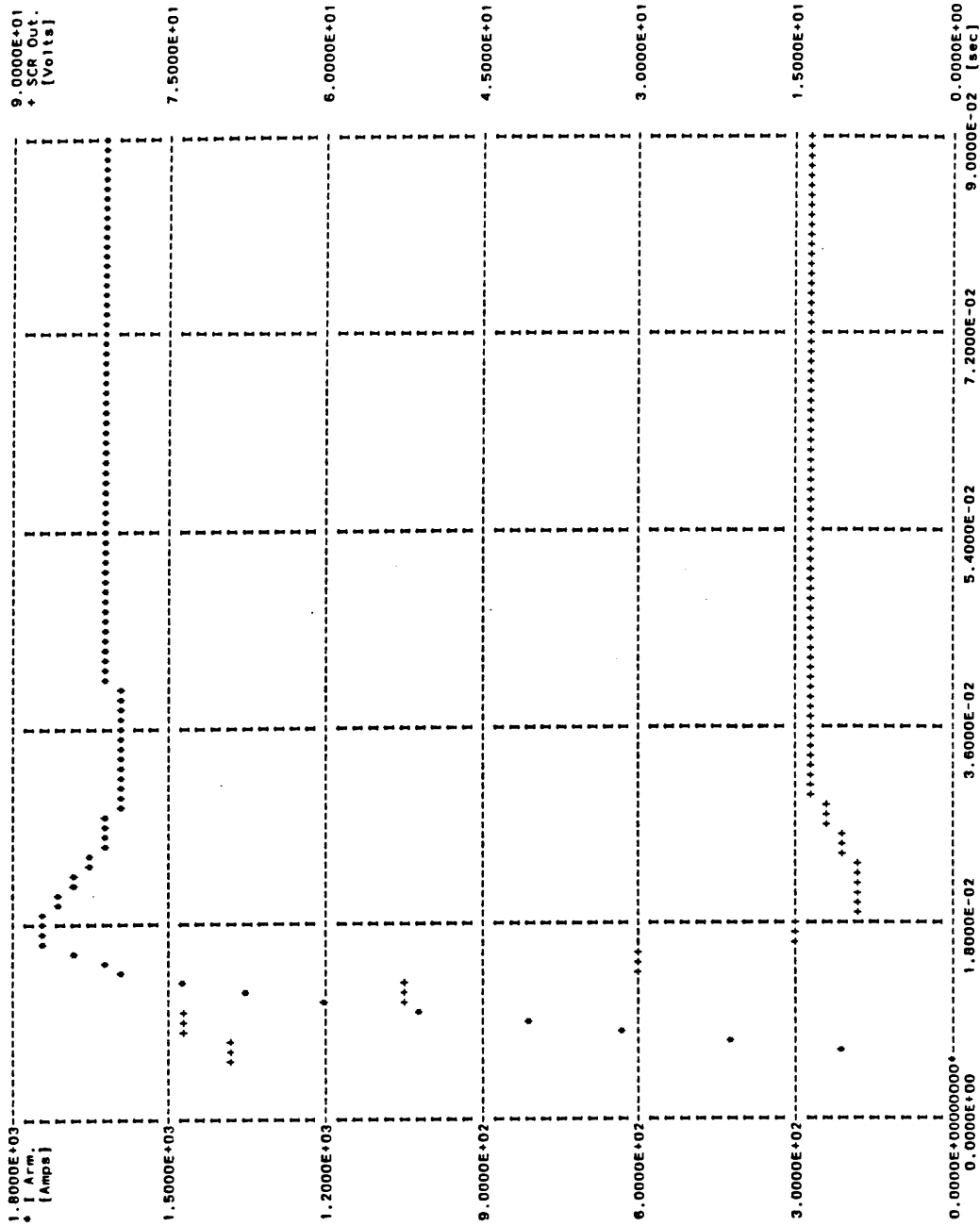


Figure #83. Step Input Response. Current Rate Digital Regulator. K=0.1.

Then, another current feedback loop is closed, and compared with the current reference coming from the speed regulator. See the scheme in figure 84.

The trapezoid rule integration is used to emulate the integrator. Its transfer function expression is:

$$H(z) = \frac{T}{2} * \frac{z + 1}{z - 1},$$

where T is the sampling period.

The current rate block transfer function, which is expressed as a function of s in the scheme figure, is transformed to the z domain, by the pole-zero mapping method.

$$H(s) = \frac{100}{100 + s}$$

From the definition of z equal to  $e^{sT}$ , the pole in s equal to -100 gives a pole in z equal to  $e^{(-100*T)}$  or 0.75729682.

The zero at infinite s, is mapped as a zero at z equal to -1.

$$H(z) = C * \frac{z + 1}{z - 0.75729682}$$

The constant multiplying the z expression, is solved from:

$$H(s) \Big|_{s=0} = H(z) \Big|_{z=1},$$

then C = 0.12135159

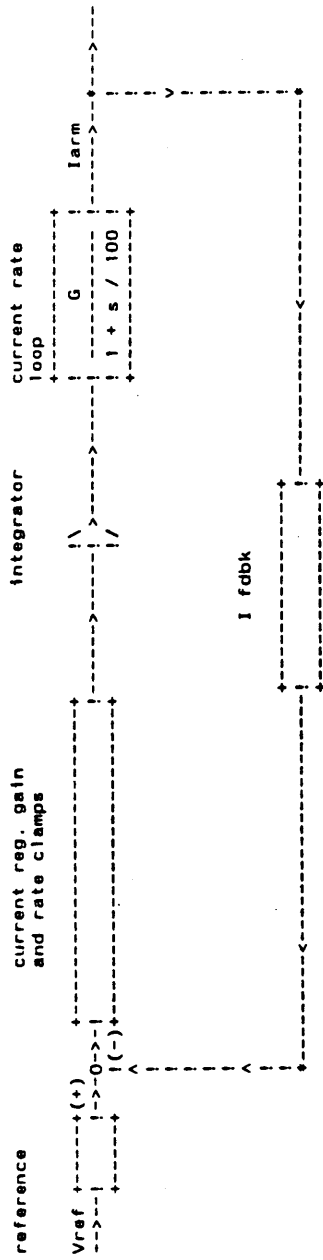


Figure #84. Current Digital Regulator Scheme.

The open loop transfer function is:

$$H(z) = \frac{K * 0.12135159 * (z + 1)**2}{(z - 1) * (z - 0.75729682)}$$

The same scheme, now all in z-domain is drawn in figure 85.

The current is referred as in the current feedback point.

The program LOCUS of appendix 42 is used to analyze stability. The output of the program is in appendix 47. Figure 86 shows the tracing of the locus.

The adopted gain of 0.05, with poles in  $0.8673 + j0.08074$  and its conjugate, has a damping factor of 0.8 and a natural frequency of 56.50 [rad/sec].

### 6.3.3 Digital Current Regulator Model.

The current regulator loop of figure 85, it is drawn now in a way to define the program ITERATION variables, in figure 87.

Notice that the digital regulators are solved by difference equation, but the plant remains continuous. Sampling of feedback is done by the I/O and sampling and ZOH by the SCR.

The program ITERATION related to the system is in appendix 48.

The output printouts for a step input response are in

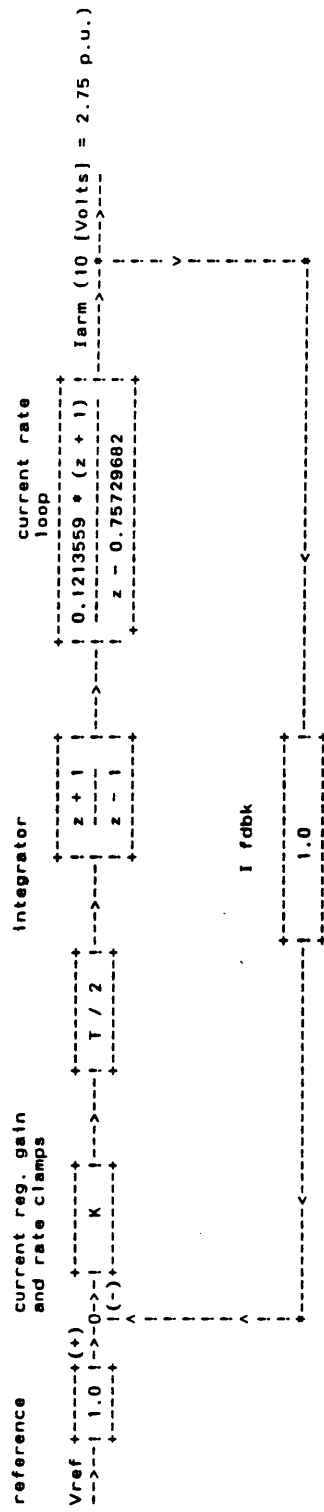


Figure #85. Current Digital Regulator. Z-Domain.



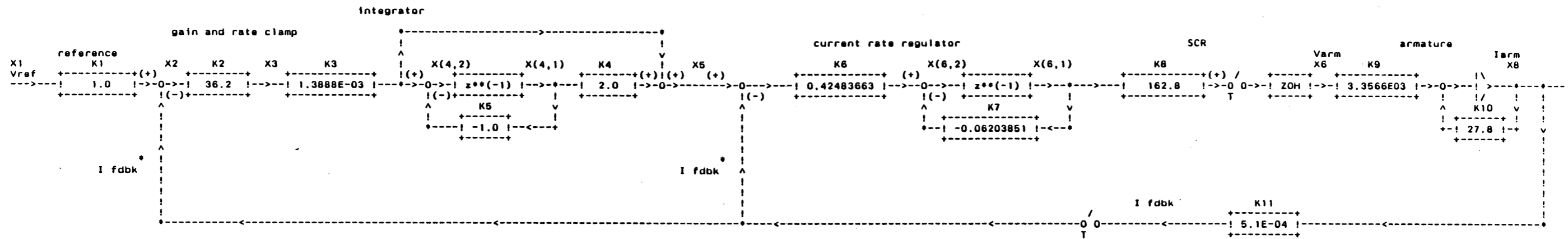


Figure #87. Current digital Regulator Model.



appendix 49 and the graphic in figure 88.

A current rate limit of 20 [p.u./sec] is built up in the program, limiting the value of X3 to a maximum of 72.6.

The correspondent program ITERATION is in appendix 50, the printouts for a step input reference are in appendix 51 and the graph in figure 89. The measured rate limit is smaller because the current rate is a class zero regulator and its gain has been substantially reduced.

Comparing both last figures, the decrease in speed response is evident when the current rate limit starts operating.

#### 6.4 ELIMINATION OF THE CURRENT RATE LOOP.

The speed of the current regulator in the previous scheme is limited by the current rate inner loop. If the inner loop has a maximum response of 100 [rad/sec], the current regulator loop outside has a maximum response of 33 [rad/sec], keeping a design speed ratio of three to one.

To avoid this limitation the elimination of the inner loop is going to be studied.

##### 6.4.1 Current Rate Limit Without Rate Limit Loop.

A new mechanism is necessary to produce the current rate limit.

The voltage supplied by the SCR is going to be limited

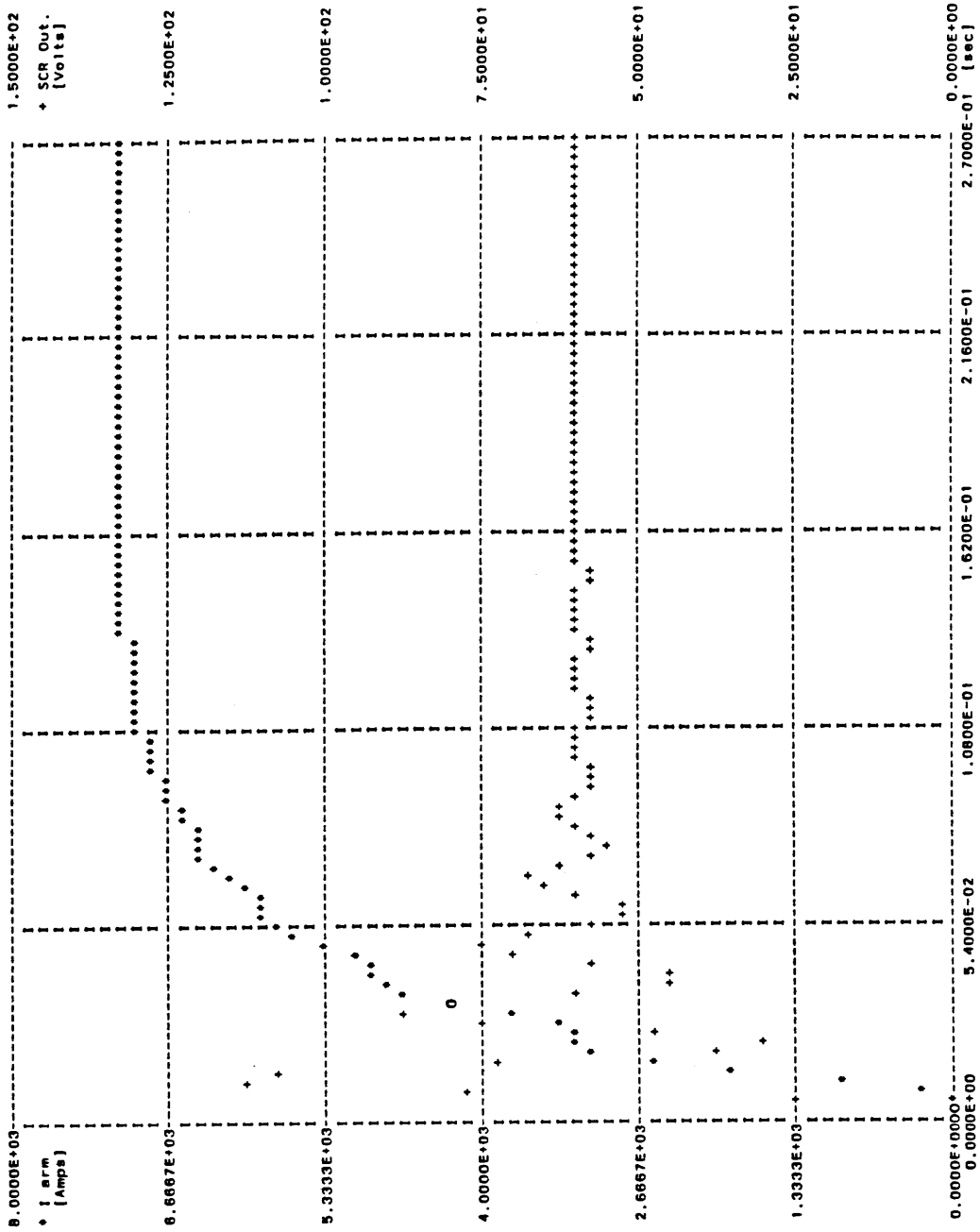


Figure #88. Digital Current Regulator. No Current Rate Limit.

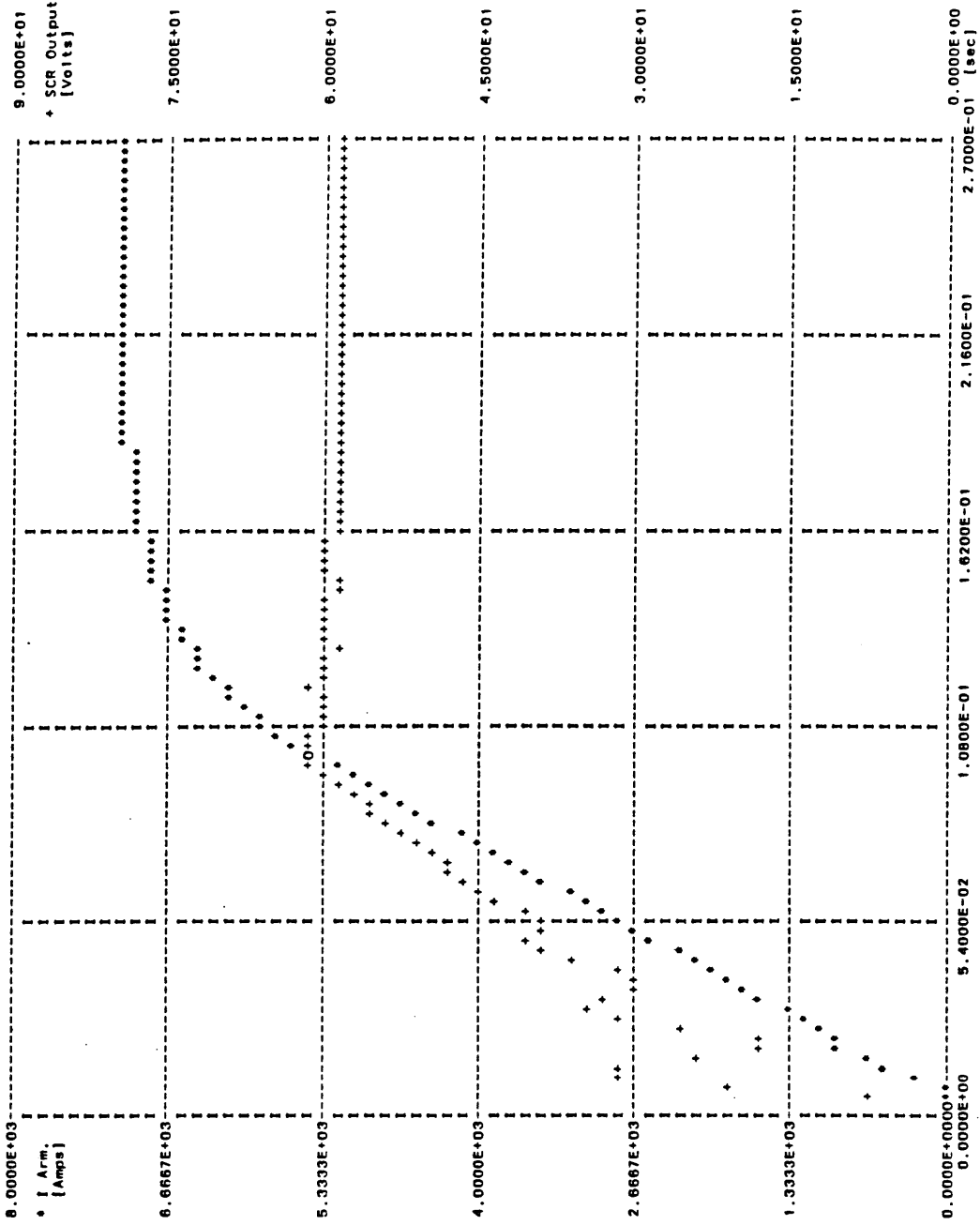


Figure #89. Digital Current Regulator. Current Rate Limit is Incorporated.

when the maximum accepted current rate value is reached.

The armature circuit expression gives the control law.

$$V_{arm.} = V_{cemf} + I_{arm} * R_{arm} + L_{arm} * di/dT ,$$

where  $V_{cemf}$  = rotor speed \* flux, (zero for locked rotor).  
 $R_{arm}$  = 0.008282 [Ohms], from data sheet.  
 $L_{arm}$  = 0.000426 [Hy], from data sheet.  
 $di/dT$  = 20 [p.u./sec] \* 7120 [Amps], data sheet.

#### 6.4.2 No Inner Loop Current Regulator Design.

A transfer function in the s-domain is adopted as:

$$H(s) = K * 737.38 * \frac{s + 27.8}{s} * \frac{1000}{s + 1000} ,$$

with a zero at -27.8 to cancel the plant pole, a pole at -1000 to produce a time delay to permit I/O and calculation operation, and a pole in zero to avoid current errors at steady state.

The correspondent expression in the z-domain is:

$$H(z) = K * 877.93878 * \frac{(z - 0.925684)}{(z - 1) * (z - 0.06203851)}$$

The sampling, ZOH and plant transfer function in the z-domain was solved in previous points. The loop transfer function is:

$$H(z) = \frac{z - 1}{z} * K * 877.93878 * \frac{(z - 0.925684)}{(z - 1) * (z - 0.06203851)} * 0.06157736 * \left( \frac{z}{z - 1} - \frac{z}{z - 0.925684} \right)$$

After algebraic manipulation, it yields:

$$H(z) = K * \frac{3.9901515}{(z - 1) * (z - 0.06203851)}$$

The program LOCUS of appendix 42 is run and the output is in appendix 52.

The locus diagram is drawn in figure 90.

A gain of 0.11 is taken, with poles in  $0.5310 + j0.4231$  and its conjugate, damping factor of 0.4, and a natural frequency of 284 [rad/sec].

#### 6.4.3 No Inner Loop Current Regulator Model.

From the previous transfer function expressions, the block diagram showing the variable names used in the model, is drawn in figure 91. The program ITERATION of appendix 53 follows this scheme. The current rate limit acting over the SCR voltage has been implemented in the program.

When the limit is acting, integration of errors ahead in the loop is suspended.

For a small step reference, so the rate limit is not reached, the printouts are in appendix 54, and graph in figure 92

The time response measured in the diagram is the 100 [rad/sec]. for a larger step, the rate limit acts. Printouts are in appendix 55 and graph in figure 93. Now the time response has decreased and the rate limit value can be read from the graphic, measuring 23 [p.u/sec].

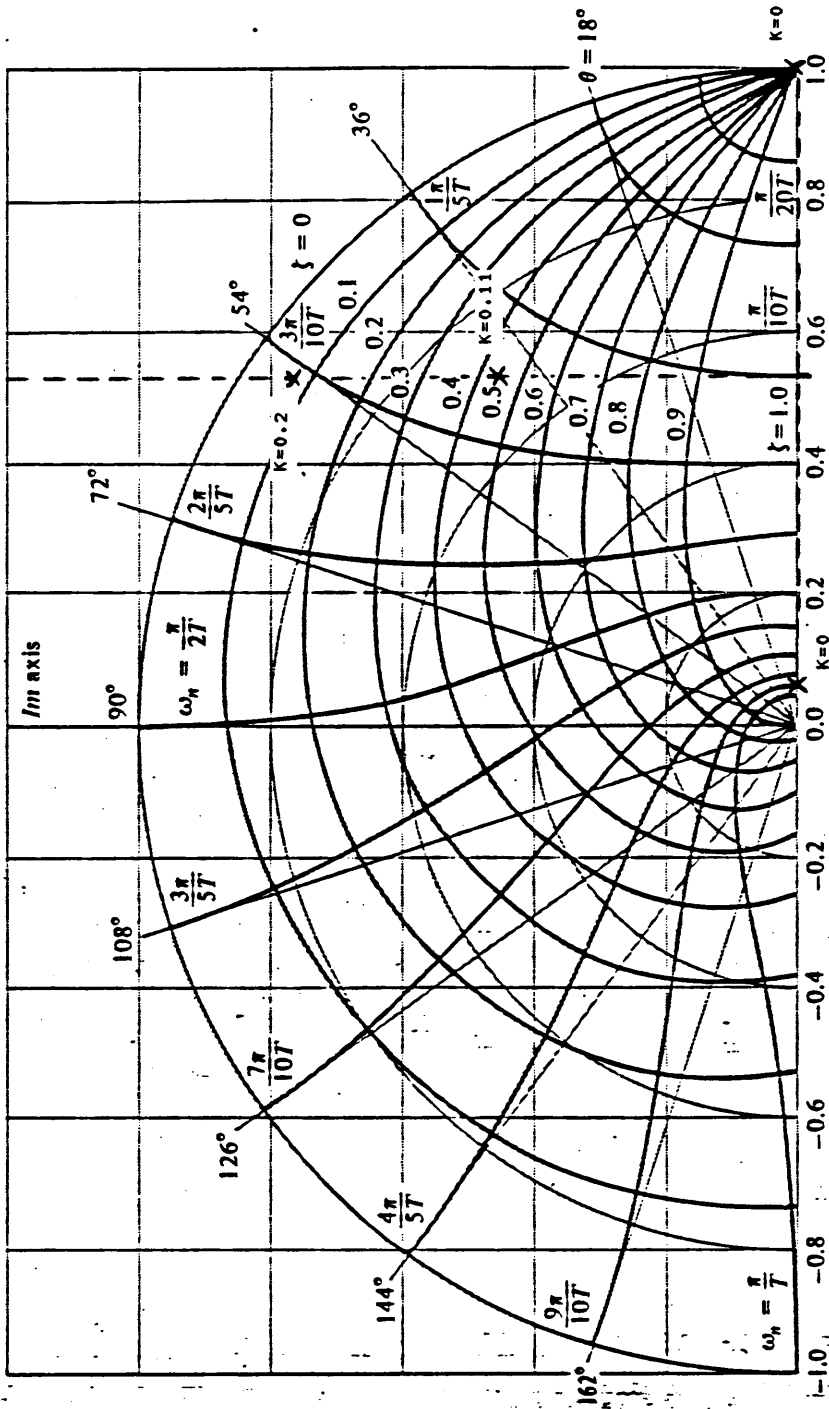


Figure #90. No Inner Loop Digital Current Regulator.

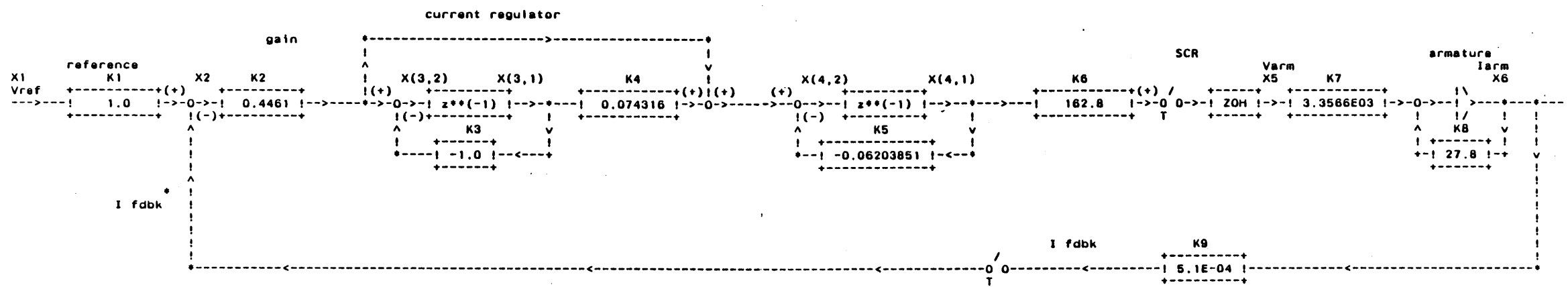


Figure #91. Current digital Regulator Model. No Inner Loop





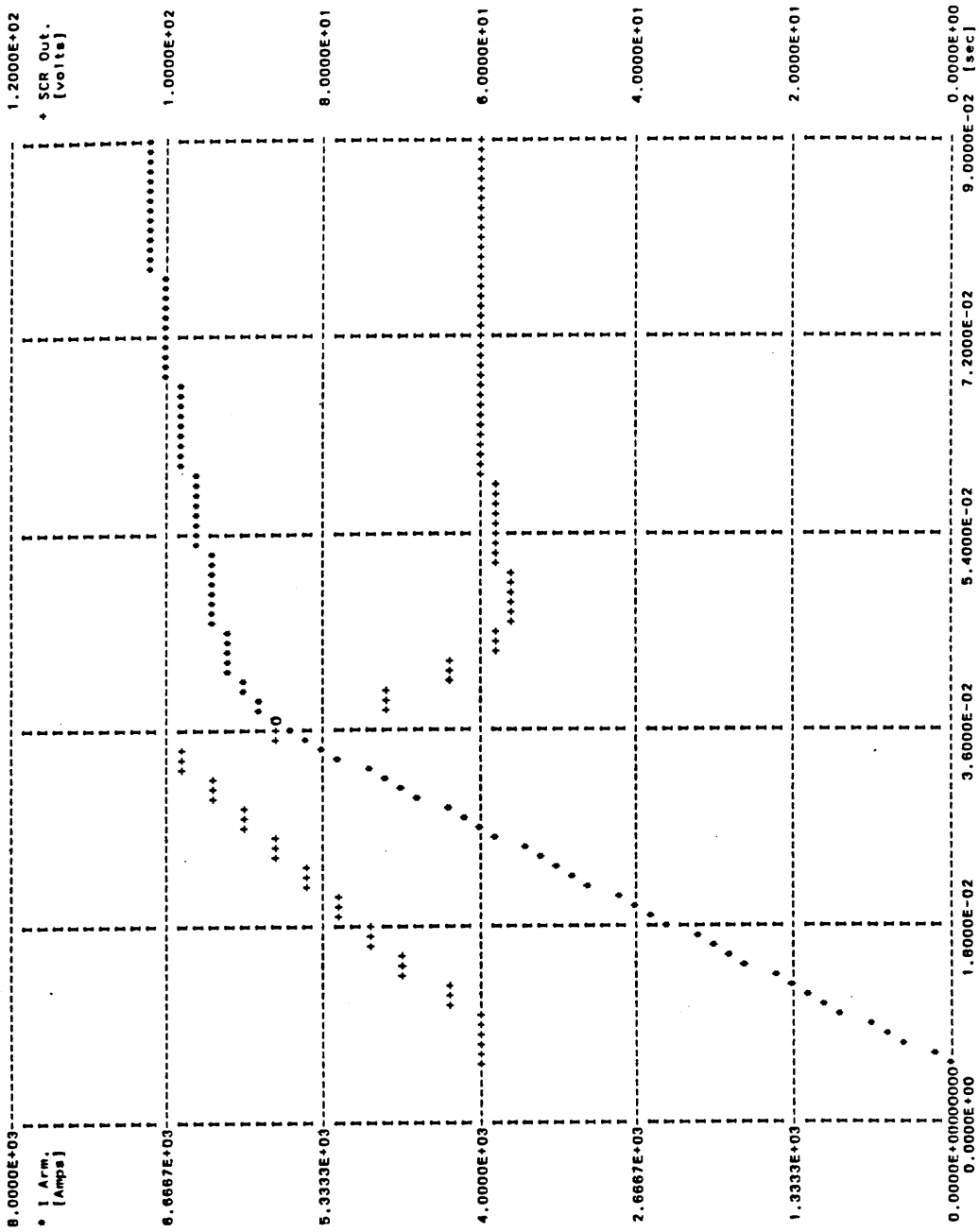


Figure #93. Digital Current Regulator. No Inner Loop. Large Step.

## 6.5 CONCLUSION.

The z-transform is the design tool to use in loops, where the SCR firing time is comparable to the desired response, in spite of the plant and controller being continuous.

That is the case in the example, where the gain of the Bode response of 1200 [rad/sec] makes the model unstable, but the gain and a response of 220 [rad/sec] calculated with the z-transform method, are exactly coherent with the model.

A digital current regulator with the same scheme that the analog one, is study with z-transform.

A new scheme of digital current regulator is proposed and designed with z-transform. It does not have the rate inner loop.

Its response, 100 [rad/sec], is three times higher that the one with conventional layout.

The current rate limit is performed controlling the SCR output.

Its correct behavior is checked with the model.

## SUMMARY.

The system is studied below base speed with use of the transition matrix. Then an iteration method is developed to reach the same results. This fact validates the new method.

Optimal control is used below base speed, where the system is linear. The responses are right but the scheme does not allow to use limits in the variables as in the classical configuration.

The system is analyzed above base speed.

An improvement in the scheme of the terminal voltage regulator gives better results in the speed range.

The SCR output is considered as a sampling and ZOH in the iteration program giving a realistic modelling.

Z-transform is used to design the inner loop of the analog current regulator and the program model confirms the results.

A digital current regulator is studied and the elimination of the current-rate inner loop is proposed. It

makes the current response three times faster.

The current-rate limit is performed in a new way, being more exact than the conventional.

Due to I/O and calculation time, which jeopardizes the current response in the digital regulator, the elimination of the inner loop, which improves the performance, is an important breakthrough.

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Elementaries 228B3462 for SILCO+ (TM) packages.  
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Calculations for elementaries 228B5901.  
Motor data sheets.

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APPENDICES TO THE THESIS  
MODERN CONTROL THEORY APPLICATION IN  
MILL MAIN DRIVE DESIGN.

by

Leonardo "Kopeloff"

Thesis submitted to the Faculty of the  
Virginia Polytechnic Institute and State University  
in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE

in

Electrical Engineering

October, 1985  
Blacksburg, Virginia



6/3/56 MCR

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C Appendix #1.  
C

C PROGRAM TRANSITION  
C  
C  
C  
C

-----  
C FUNCTION : This program will read the homogeneous A matrix and state  
C variables initial conditions.  
C It calculates the transition matrix using a truncated matrix  
C series for an interval T.  
C It solves the states vectors time response using the calculated  
C value as initial condition for the next interval.  
C

C Author : Leonardo Kopeloff. Jan.9.84  
C

C Reference : Modern Control Systems. R.C.Dorf.  
C

C Language : Fortran-77  
C

C Inputs : Interval, interval quantity, matrix order, A matrix and  
C initial conditions.  
C

C Outputs : Transition matrix. State vector time response.  
C

C Linking : No subroutine used.  
C

-----  
C VARIABLE DECLARATION.  
C  
C

C REAL A(13,13)  
C

C REAL B(13,13)  
C

C REAL C(13,13)  
C

C REAL D(13,13)  
C

C REAL X(13)  
C

C REAL Y(13)  
C

C INTEGER Z(13)  
C

C INTEGER STATUS  
C

C INTEGER I,J,K,IK,L,LIM,LIM1  
C

C REAL CONTR,DEN  
C

C REAL T  
C

C INTEGER TQ  
C

```

REAL TIME
C
-----
C
C   OPEN THE OUTPUT FILE.
C
-----
C
C   OPEN (UNIT=10,STATUS='NEW',NAME='SPARK.DAT')
C   OPEN (UNIT=11,STATUS='NEW',NAME='SP1.DAT')
C
-----
C
C   READ AND PRINT INPUT DATA.
C
-----
C
PRINT *, 'ENTER INTERVAL IN SEC.'
READ *, T
PRINT *, 'ENTER HOW MANY INTERVALS.'
READ *, TQ
PRINT *, 'Enter A matrix order'
READ *, LIM
PRINT *, 'Enter A matrix.'
DO I=1,LIM
  DO J=1,LIM
    READ *, A(I,J)
  END DO
END DO
PRINT *, 'Enter initial conditions.'
DO I=1,LIM
  READ *, Y(I)
END DO
C
30  FORMAT('1',5X,'TRANSITION MATRIX AND TIME RESPONSE',/)
40  FORMAT(/,70('*'),/)
50  FORMAT(5X,'A MATRIX.',/)
60  FORMAT(1P8E13.4)
70  FORMAT(//,5X,'INITIAL CONDITIONS.',/)
80  FORMAT(5X,'TRANSITION MATRIX.',/)
90  FORMAT(5X,'TIME RESPONSE.',//)
100 FORMAT(5X,'TIME      ',13(I2,' VARIABLE  '))
110 FORMAT(X)
WRITE(10,30)
WRITE(10,40)
WRITE(10,50)
IF (LIM.GT.7) THEN
  WRITE(11,30)
  WRITE(11,40)
  WRITE(11,50)
  LIM1=7
  DO I=1,LIM
    WRITE(11,60),(A(I,K),K=8,LIM)
  END DO
  WRITE(11,70)
  WRITE(11,60),(Y(I),I=8,LIM)
  WRITE(11,40)
ELSE
  LIM1=LIM

```

```

ENDIF
DO I=1,LIM
  WRITE(10,60),(A(I,K),K=1,LIM1)
END DO
WRITE(10,70)
WRITE(10,60),(Y(I),I=1,LIM1)
WRITE(10,40)

```

C  
-----  
C  
C  
C  
C  
C  
C

CALCULATE THE TRANSITION MATRIX.

```

DO I=1,LIM
  DO J=1,LIM
    A(I,J) = T * A(I,J)
    C(I,J) = 0.0
    C(I,I) = 1.0
    D(I,J) = A(I,J) + C(I,J)
    B(I,J) = A(I,J)
  END DO
END DO

```

C  
C  
C

CLEAN C(I,J)

```

DO I=1,LIM
  DO J=1,LIM
    C(I,J)=0.0
  END DO
END DO

```

C  
C  
C

ITERATION CALCULATION

```

IK = 2
STATUS = 1
DO WHILE ((STATUS.EQ.1).AND.(IK.LT.501))
  STATUS = 0
  DEN = IK

```

C  
C  
C

DO ((A.T)\*\*N)/N!

```

  DO I=1,LIM
    DO J=1,LIM
      DO K=1,LIM
        C(I,J)=C(I,J)+A(I,K)*B(K,J)/DEN
      END DO
    END DO
  END DO

```

C  
C  
C

CHECK LAST ITERATION CONTRIBUTION.

```

  IF (D(I,J).NE.0.0) THEN
    CONTR=ABS(C(I,J)/D(I,J))
    IF (CONTR.GT.0.000000001) THEN
      STATUS = 1
    END IF
  ELSEIF (C(I,J).GT.0.0) THEN
    STATUS = 1
  END IF

```

C  
C

ADD CONTRIBUTION.

```

C
      D(I,J) = D(I,J) + C(I,J)
      END DO
    END DO
  DO I=1,LIM
    DO J=1,LIM
C
      STORE ((A,T**N)/N!)
C
      B(I,J) = C(I,J)
C
      CLEAN C(I,J)
C
      C(I,J) = 0.0
      END DO
    END DO
    IK = IK + 1
  END DO

C
C
C
  PRINT *, ' '
  PRINT *, 'TRANSITION MATRIX.'
  PRINT *, ' '
  DO I=1,LIM
    DO J=1,LIM
      PRINT *, D(I,J)
    END DO
    PRINT *, ' '
  END DO
  PRINT *, ' '

C
  IF (LIM.GT.7) THEN
    WRITE(11,80)
    DO I=1,LIM
      WRITE(11,60), (D(I,J), J=8,LIM)
    END DO
    WRITE(11,40)
  ENDIF
  WRITE(10,80)
  DO I=1,LIM
    WRITE(10,60), (D(I,J), J=1,LIM1)
  END DO
  WRITE(10,40)

C
C
C
  STATE VECTORS
  DO I=1,LIM
    Z(I)=I
  END DO
  IF (LIM.GT.7) THEN
    WRITE(11,90)
    WRITE(11,100), (Z(I), I=8,LIM)
    WRITE(11,110)
  ENDIF
  WRITE(10,90)
  WRITE(10,100), (Z(I), I=1,LIM1)
  WRITE(10,110)

C
  DO L=1,TQ

```

```
DO I=1,LIM
  X(I)=0.0
  DO J=1,LIM
    X(I) = X(I) + D(I,J)*Y(J)
  END DO
END DO
DO I=1,LIM
  Y(I) = X(I)
END DO
TIME = L*T
IF (LIM.GT.7) THEN
  WRITE(11,60),TIME,(X(I),I=8,LIM)
ENDIF
WRITE(10,60),TIME,(X(I),I=1,LIM1)
END DO
END
```

Appendix #2.

TRANSITION MATRIX AND TIME RESPONSE

A MATRIX.

```

-2.7800E+01  3.3566E+03  0.0000E+00  0.0000E+00  0.0000E+00
-3.5360E+02  -2.2000E+03  8.0900E+07  2.3040E+15  1.3100E+04
-1.3830E-03  0.0000E+00  -2.5600E+01  9.0100E+09  5.1250E-09
-4.9140E-12  0.0000E+00  0.0000E+00  0.0000E+00  9.6350E-02
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
    
```

INITIAL CONDITIONS.

```

0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  3.6363E+00
    
```

TRANSITION MATRIX.

```

1.7368E-01  5.5475E-01  1.3188E+05  5.0131E+12  7.1401E+01
-1.2011E-01  -1.8532E-01  1.3457E+04  7.7629E+11  1.9160E+01
-1.7568E-08  -2.3251E-06  7.7084E-01  1.1386E+07  2.0044E-04
-6.1939E-15  -8.2111E-15  -6.3441E-10  9.7812E-01  1.9071E-11
0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  1.0000E+00
    
```

TIME RESPONSE.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE
2.0000E-03	2.5964E+02	6.9671E+01	7.2885E-04	6.9168E-11	3.6363E+00
4.0000E-03	7.8624E+02	8.9076E+01	1.4601E-03	1.3418E-10	3.6363E+00
6.0000E-03	1.3108E+03	8.2538E+01	1.7938E-03	1.9388E-10	3.6363E+00
8.0000E-03	1.7416E+03	7.1577E+01	1.8245E-03	2.4888E-10	3.6363E+00
1.0000E-02	2.0901E+03	6.4965E+01	1.7429E-03	3.0007E-10	3.6363E+00
1.2000E-02	2.3928E+03	6.2978E+01	1.6661E-03	3.4808E-10	3.6363E+00
1.4000E-02	2.6749E+03	6.3226E+01	1.6265E-03	3.9324E-10	3.6363E+00
1.6000E-02	2.9451E+03	6.3821E+01	1.6140E-03	4.3569E-10	3.6363E+00
1.8000E-02	3.2036E+03	6.4079E+01	1.6144E-03	4.7653E-10	3.6363E+00
2.0000E-02	3.4480E+03	6.3849E+01	1.6087E-03	5.1595E-10	3.6363E+00
2.2000E-02	3.6773E+03	6.3501E+01	1.6032E-03	5.5439E-10	3.6363E+00
2.4000E-02	3.8919E+03	6.3149E+01	1.5989E-03	5.9082E-10	3.6363E+00
2.6000E-02	4.0928E+03	6.2851E+01	1.5952E-03	6.2564E-10	3.6363E+00
2.8000E-02	4.2810E+03	6.2605E+01	1.5917E-03	6.5832E-10	3.6363E+00
3.0000E-02	4.4576E+03	6.2390E+01	1.5871E-03	6.8924E-10	3.6363E+00
3.2000E-02	4.6232E+03	6.2190E+01	1.5889E-03	7.1868E-10	3.6363E+00
3.4000E-02	4.7787E+03	6.1999E+01	1.5686E-03	7.4698E-10	3.6363E+00
3.6000E-02	4.9245E+03	6.1817E+01	1.5586E-03	7.7386E-10	3.6363E+00
3.8000E-02	5.0613E+03	6.1644E+01	1.5537E-03	7.9955E-10	3.6363E+00
4.0000E-02	5.1895E+03	6.1483E+01	1.5493E-03	8.2412E-10	3.6363E+00
4.2000E-02	5.3096E+03	6.1332E+01	1.5450E-03	8.4768E-10	3.6363E+00
4.4000E-02	5.4227E+03	6.1190E+01	1.5411E-03	8.7035E-10	3.6363E+00
4.6000E-02	5.5286E+03	6.1057E+01	1.5374E-03	8.9210E-10	3.6363E+00
4.8000E-02	5.6278E+03	6.0933E+01	1.5339E-03	9.1304E-10	3.6363E+00
5.0000E-02	5.7210E+03	6.0816E+01	1.5306E-03	9.3316E-10	3.6363E+00
5.2000E-02	5.8089E+03	6.0707E+01	1.5276E-03	9.5255E-10	3.6363E+00
5.4000E-02	5.8903E+03	6.0604E+01	1.5247E-03	9.7123E-10	3.6363E+00
5.6000E-02	5.9672E+03	6.0508E+01	1.5220E-03	9.8933E-10	3.6363E+00
5.8000E-02	6.0392E+03	6.0417E+01	1.5195E-03	9.1050E-10	3.6363E+00



6.0000E-02 6.1066E+03 6.0332E+01 1.5171E-03 9.2089E-10 3.6363E+00  
6.2000E-02 6.1703E+03 6.0253E+01 1.5149E-03 9.2089E-10 3.6363E+00  
6.4000E-02 6.2298E+03 6.0108E+01 1.5128E-03 9.2089E-10 3.6363E+00  
6.6000E-02 6.2856E+03 6.0018E+01 1.5109E-03 9.2089E-10 3.6363E+00  
6.8000E-02 6.3380E+03 5.9981E+01 1.5091E-03 9.2089E-10 3.6363E+00  
7.0000E-02 6.3871E+03 5.9941E+01 1.5073E-03 9.2089E-10 3.6363E+00  
7.2000E-02 6.4331E+03 5.9923E+01 1.5057E-03 9.2089E-10 3.6363E+00  
7.4000E-02 6.4763E+03 5.9869E+01 1.5042E-03 9.2089E-10 3.6363E+00  
7.6000E-02 6.5168E+03 5.9818E+01 1.5028E-03 9.2089E-10 3.6363E+00  
7.8000E-02 6.5549E+03 5.9771E+01 1.5015E-03 9.2089E-10 3.6363E+00  
8.0000E-02 6.5905E+03 5.9726E+01 1.5002E-03 9.2089E-10 3.6363E+00  
8.2000E-02 6.6239E+03 5.9684E+01 1.4991E-03 9.2089E-10 3.6363E+00  
8.4000E-02 6.6553E+03 5.9645E+01 1.4980E-03 9.2089E-10 3.6363E+00  
8.6000E-02 6.6847E+03 5.9608E+01 1.4969E-03 9.2089E-10 3.6363E+00  
8.8000E-02 6.7123E+03 5.9575E+01 1.4959E-03 9.2089E-10 3.6363E+00  
9.0000E-02 6.7382E+03 5.9541E+01 1.4950E-03 9.2089E-10 3.6363E+00  
9.2000E-02 6.7625E+03 5.9510E+01 1.4942E-03 9.2089E-10 3.6363E+00  
9.4000E-02 6.7853E+03 5.9482E+01 1.4934E-03 9.2089E-10 3.6363E+00  
9.6000E-02 6.8066E+03 5.9456E+01 1.4927E-03 9.2089E-10 3.6363E+00  
9.8000E-02 6.8267E+03 5.9430E+01 1.4920E-03 9.2089E-10 3.6363E+00  
1.0000E-01 6.8455E+03 5.9406E+01 1.4913E-03 9.2089E-10 3.6363E+00  
1.2000E-01 6.8631E+03 5.9384E+01 1.4907E-03 9.2089E-10 3.6363E+00  
1.4000E-01 6.8795E+03 5.9363E+01 1.4901E-03 9.2089E-10 3.6363E+00  
1.6000E-01 6.8947E+03 5.9344E+01 1.4896E-03 9.2089E-10 3.6363E+00  
1.8000E-01 6.9087E+03 5.9328E+01 1.4891E-03 9.2089E-10 3.6363E+00  
2.0000E-01 6.9215E+03 5.9308E+01 1.4886E-03 9.2089E-10 3.6363E+00  
2.2000E-01 6.9332E+03 5.9292E+01 1.4881E-03 9.2089E-10 3.6363E+00  
2.4000E-01 6.9438E+03 5.9277E+01 1.4877E-03 9.2089E-10 3.6363E+00  
2.6000E-01 6.9534E+03 5.9263E+01 1.4873E-03 9.2089E-10 3.6363E+00  
2.8000E-01 6.9620E+03 5.9250E+01 1.4869E-03 9.2089E-10 3.6363E+00  
3.0000E-01 6.9697E+03 5.9238E+01 1.4866E-03 9.2089E-10 3.6363E+00  
3.2000E-01 6.9765E+03 5.9226E+01 1.4863E-03 9.2089E-10 3.6363E+00  
3.4000E-01 6.9824E+03 5.9215E+01 1.4860E-03 9.2089E-10 3.6363E+00  
3.6000E-01 7.0081E+03 5.9205E+01 1.4857E-03 9.2089E-10 3.6363E+00  
3.8000E-01 7.0138E+03 5.9195E+01 1.4854E-03 9.2089E-10 3.6363E+00  
4.0000E-01 7.0209E+03 5.9186E+01 1.4852E-03 9.2089E-10 3.6363E+00  
4.2000E-01 7.0277E+03 5.9178E+01 1.4849E-03 9.2089E-10 3.6363E+00  
4.4000E-01 7.0340E+03 5.9170E+01 1.4847E-03 9.2089E-10 3.6363E+00  
4.6000E-01 7.0400E+03 5.9162E+01 1.4845E-03 9.2089E-10 3.6363E+00  
4.8000E-01 7.0455E+03 5.9155E+01 1.4843E-03 9.2089E-10 3.6363E+00  
5.0000E-01 7.0508E+03 5.9149E+01 1.4841E-03 9.2089E-10 3.6363E+00  
5.2000E-01 7.0557E+03 5.9143E+01 1.4839E-03 9.2089E-10 3.6363E+00  
5.4000E-01 7.0603E+03 5.9137E+01 1.4838E-03 9.2089E-10 3.6363E+00  
5.6000E-01 7.0646E+03 5.9131E+01 1.4836E-03 9.2089E-10 3.6363E+00  
5.8000E-01 7.0686E+03 5.9126E+01 1.4835E-03 9.2089E-10 3.6363E+00  
6.0000E-01 7.0724E+03 5.9122E+01 1.4834E-03 9.2089E-10 3.6363E+00  
6.2000E-01 7.0760E+03 5.9117E+01 1.4832E-03 9.2089E-10 3.6363E+00  
6.4000E-01 7.0793E+03 5.9113E+01 1.4831E-03 9.2089E-10 3.6363E+00  
6.6000E-01 7.0824E+03 5.9109E+01 1.4830E-03 9.2089E-10 3.6363E+00  
6.8000E-01 7.0854E+03 5.9105E+01 1.4829E-03 9.2089E-10 3.6363E+00  
7.0000E-01 7.0881E+03 5.9102E+01 1.4828E-03 9.2089E-10 3.6363E+00  
7.2000E-01 7.0907E+03 5.9099E+01 1.4827E-03 9.2089E-10 3.6363E+00  
7.4000E-01 7.0931E+03 5.9096E+01 1.4826E-03 9.2089E-10 3.6363E+00  
7.6000E-01 7.0954E+03 5.9093E+01 1.4825E-03 9.2089E-10 3.6363E+00  
7.8000E-01 7.0975E+03 5.9089E+01 1.4824E-03 9.2089E-10 3.6363E+00  
8.0000E-01 7.0995E+03 5.9086E+01 1.4823E-03 9.2089E-10 3.6363E+00  
8.2000E-01 7.1014E+03 5.9082E+01 1.4823E-03 9.2089E-10 3.6363E+00  
8.4000E-01 7.1032E+03 5.9083E+01 1.4822E-03 9.2089E-10 3.6363E+00  
8.6000E-01 7.1048E+03 5.9081E+01 1.4822E-03 9.2089E-10 3.6363E+00  
8.8000E-01 7.1064E+03 5.9079E+01 1.4821E-03 9.2089E-10 3.6363E+00  
9.0000E-01 7.1078E+03 5.9077E+01 1.4821E-03 9.2089E-10 3.6363E+00  
9.2000E-01 7.1092E+03 5.9076E+01 1.4821E-03 9.2089E-10 3.6363E+00  
9.4000E-01 7.1105E+03 5.9074E+01 1.4820E-03 9.2089E-10 3.6363E+00  
9.6000E-01 7.1117E+03 5.9072E+01 1.4820E-03 9.2089E-10 3.6363E+00  
9.8000E-01 7.1128E+03 5.9071E+01 1.4819E-03 9.2089E-10 3.6363E+00  
1.0000E-01 7.1138E+03 5.9070E+01 1.4819E-03 9.2089E-10 3.6363E+00

1.9200E-01	7.1148E+03	5.9069E+01	1.4618E-03	1.0756E-09	3.6383E+00
1.9400E-01	7.1157E+03	5.9097E+01	1.4618E-03	1.0758E-09	3.6383E+00
1.9600E-01	7.1166E+03	5.9064E+01	1.4618E-03	1.0759E-09	3.6383E+00
1.9800E-01	7.1175E+03	5.9095E+01	1.4618E-03	1.0760E-09	3.6383E+00
2.0000E-01	7.1187E+03	5.9064E+01	1.4618E-03	1.0761E-09	3.6383E+00



```

10  FORMAT('1',//////////)
20  FORMAT(1P8E13.4)
30  FORMAT(//////////)
    PRINT *, 'ENTER HOW MANY VARIABLES AND NUMBER OF SAMPLES.'
    READ *, NR, MAX
    PRINT *, 'HOW MANY VARIABLES IN SOURCE FILE ?'
    READ *, PVAR
    PRINT *, 'ORDER OF MATRICES ?'
    READ *, PVAM
    PRINT *, 'ENTER DESIRED VARIABLES'
    DO I=1, NR
        READ *, VR(I)
    ENDDO
    READ(9,10)
    DO I=1, PVAM
        READ(9,20)
    ENDDO
    V(1,1)=0.0
    READ(9,20) (AUX(K), K=2, PVAR)
    I=1
    DO J=2, NR
        V(I,J)=AUX(VR(J))
    ENDDO
    PRINT *, (V(I,J), J=1, NR)
    READ(9,30)
    DO I=1, PVAM
        READ(9,20)
    ENDDO
    DO I=2, MAX
        READ(9,20) (AUX(K), K=1, PVAR)
        DO J=1, NR
            V(I,J)=AUX(VR(J))
        ENDDO
        PRINT *, (V(I,J), J=1, NR)
    ENDDO

```

C  
-----  
C  
C  
C  
C  
C  
C

SORT THE FIRST VARIABLE.

```

    FLAG=1
    DO WHILE (FLAG.EQ.1)
        FLAG=0
        DO I=1, MAX-1
            IF (V(I,1).GT.V((I+1),1)) THEN
                FLAG=1
                DO K=1, NR
                    TEMP=V(I,K)
                    V(I,K)=V((I+1),K)
                    V((I+1),K)=TEMP
                ENDDO
            ENDDO
        ENDDO
    ENDDO

```

C  
-----  
C  
C  
C  
C

ASSIGN MAXIMUM AND MINIMUM FOR FIRST VARIABLE.

```

C
C-----
C
    VMX(1)=V(MAX,1)
    VMN(1)=V(1,1)
C
C-----
C
    FIND MAXIMUM AND MINIMUM IN THE OTHER VARIABLES.
C-----
C
    DO J=2,NR
      VMX(J)=V(1,J)
      VMN(J)=V(1,J)
      DO I=2,MAX
        IF (VMX(J).LT.V(I,J)) THEN
          VMX(J)=V(I,J)
        ENDIF
        IF (VMN(J).GT.V(I,J)) THEN
          VMN(J)=V(I,J)
        ENDIF
      ENDDO
    ENDDO
    PRINT *, 'MAX VALUES ARE :', (VMX(J),J=1,NR)
    PRINT *, 'MIN VALUES ARE :', (VMN(J),J=1,NR)
C
C-----
C
    ASK DESIRED MAXS AND MINS.
C-----
C
    PRINT *, 'ENTER MAX & MIN DESIRED VALUES.'
    READ *, (VMX(J),J=1,NR) , (VMN(J),J=1,NR)
C
C-----
C
    CLEAR BUFFERS.
C-----
C
    DO I=1,61
      DO J=1,101
        BUF(I,J)= ' '
      ENDDO
      OVL(I)= ' '
      OVL1(I)= ' '
    ENDDO
    HVL= ' '
    DO I=1,119
      HVL=HVL//' '
    ENDDO
C
C-----
C
    WRITE FRAME.
C-----
C

```

```

DO J=1,101
  BUF(1,J)='- '
  BUF(61,J)='- '
ENDDO
DO I=2,60
  BUF(I,1)='I'
  BUF(I,101)='I'
ENDDO

```

C  
C  
C  
C  
C  
C  
C  
C

-----  
CALCULATION OF ZERO FOR THE ABSCISSA AND ORDINATE.  
WRITE SCALES.  
-----

```

INTV(1)=(VMX(1)-VMN(1))/100.0
INTTGX = VMX(1)/INTV(1) + 0.000001
J=101 - INTTGX
DO WHILE (J.GE.1)
  DO I=2,60
    BUF(I,J)='I'
  ENDDO
  XX=(J-(101-INTTGX))*INTV(1)
  WRITE(SXX,20),XX
  HVL((5+J):(18+J))=SXX
  J=J-20
ENDDO
J=101 - INTTGX + 20
DO WHILE (J.LE.101)
  DO I=2,60
    BUF(I,J)='I'
  ENDDO
  XX=(J-(101-INTTGX))*INTV(1)
  WRITE(SXX,20),XX
  HVL((5+J):(18+J))=SXX
  J=J+20
ENDDO
INTV(2)=(VMX(2)-VMN(2))/60.0
INTTGY = VMX(2)/INTV(2)+0.000001
I=61 - INTTGY
DO WHILE (I.GE.1)
  IF (I.LE.61) THEN
    DO J=1,101
      BUF(I,J)='- '
    ENDDO
    YY=(I-(61-INTTGY))*INTV(2)
    WRITE(SYY,20),YY
    OVL(I)=SYY
  ENDIF
  I=I-10
ENDDO
I=61 - INTTGY + 10
DO WHILE (I.LE.61)
  IF (I.GE.1) THEN
    DO J=1,101
      BUF(I,J)='- '
    ENDDO
    YY=(I-(61-INTTGY))*INTV(2)
    WRITE(SYY,20),YY
  ENDIF
  I=I-10
ENDDO

```

```
      OVL(I)=SYY
    ENDIF
    I=I+10
  ENDDO
  IF (NR.GT.2) THEN
    INTV(3)=(VMX(3)-VMN(3))/60.0
    INTTGZ = VMX(3)/INTV(3)+0.000001
    IF (INTTGZ.GT.INTTGY) THEN
      ITEA=INTTGY
      DO WHILE (INTTGZ.GT.ITEA)
        ITEA=ITEA+10
      ENDDO
      INTTGZ=ITEA
    
```

```

ELSEIF (INTTGZ.LT.INTTGY) THEN
  ITEA=INTTGY
  DO WHILE (INTTGZ.LT.ITEA)
    ITEA=ITEA-10
  ENDDO
  INTTGZ=ITEA
ENDIF
I=61 - INTTGZ
DO WHILE (I.GE.1)
  IF (I.LE.61) THEN
    ZZ=(I-(61-INTTGZ))*INTV(3)
    WRITE(SZZ,20),ZZ
    OVL1(I)=SZZ
  ENDIF
  I=I-10
ENDDO
I=61 - INTTGZ + 10
DO WHILE (I.LE.61)
  IF (I.GE.1) THEN
    ZZ=(I-(61-INTTGZ))*INTV(3)
    WRITE(SZZ,20),ZZ
    OVL1(I)=SZZ
  ENDIF
  I=I+10
ENDDO
ENDIF
C-----
C
C PLOT IN BUFFER.
C-----
C
DO N=1,MAX
  VXX=V(N,1)/INTV(1)+0.000001
  IF (VXX.GT.0.0) THEN
    IVXX=VXX+0.49
  ELSE
    IVXX=VXX-0.49
  ENDIF
  J=IVXX+(101-INTTGX)
  VYY=V(N,2)/INTV(2)+0.000001
  IF (VYY.GT.0.0) THEN
    IVYY=VYY+0.49
  ELSE
    IVYY=VYY-0.49
  ENDIF
  I=IVYY+(61-INTTGY)
  BUF(I,J)='*'
  IF (NR.GT.2) THEN
    VZZ=V(N,3)/INTV(3)+0.000001
    IF (VZZ.GT.0.0) THEN
      IVZZ=VZZ+0.49
    ELSE
      IVZZ=VZZ-0.49
    ENDIF
    R=IVZZ+(61-INTTGZ)
    IF ((K.LT.1).OR.(K.GT.61)) THEN
      PRINT *, 'THIRD VARIABLE OUT OF GRAPH.'
    ENDIF
  ENDIF

```



```
                ENDIF
                IF (BUF(K,J).EQ.'*') THEN
                    BUF(K,J)='0'
                ELSE
                    BUF(K,J)='+'
                ENDIF
            ENDIF
        ENDDO
C-----
C
C
C
C
C-----
C
    DO I=61,1,-1
        WRITE(10,100),OVL(I),(BUF(I,J),J=1,101),OVL1(I)
    ENDDO
    WRITE(10,110),HVL
100  FORMAT(1X,A13,101(A1),A13)
110  FORMAT(1X,A120)
    END
```

Appendix #4.

TRANSITION MATRIX AND TIME RESPONSE

A MATRIX.

```

0.0000E+00 1.780E-02 0.0000E+00 0.0000E+00 0.0000E+00
-8.1090E+04 0.000E+00 -8.5500E+01 1.0500E+11 4.3830E+05
-8.1090E+04 0.000E+00 -9.0500E+01 1.0500E+11 4.3830E+05
1.8500E-06 0.000E+00 0.0000E+00 -7.4000E+00 0.0000E+00
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
    
```

INITIAL CONDITIONS.

```

0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 5.0000E+00
    
```

TRANSITION MATRIX.

```

9.4568E-01 1.7415E-04 -5.6744E-05 8.9098E+04 2.9610E-01
-5.2886E+02 9.4568E-01 -5.4924E-01 8.8533E+08 2.8975E+03
-5.1384E+02 -5.3384E-02 4.1768E-01 8.4622E+08 2.8156E+03
1.7480E-08 1.5886E-12 -3.6920E-13 8.2812E-01 1.9174E-05
0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.0000E+00
    
```

TIME RESPONSE.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE
1.0000E-02	1.4805E+00	1.487E+04	1.4078E+04	9.5871E-09	5.0000E+00
2.0000E-02	4.8054E+00	1.9879E+04	1.8430E+04	6.2162E-08	5.0000E+00
3.0000E-02	8.2213E+00	2.0860E+04	1.8399E+04	1.7226E-07	5.0000E+00
4.0000E-02	1.1807E+01	1.9811E+04	1.6582E+04	3.3920E-07	5.0000E+00
5.0000E-02	1.5146E+01	1.7823E+04	1.4097E+04	5.6514E-07	5.0000E+00
6.0000E-02	1.8169E+01	1.6054E+04	1.1586E+04	8.1428E-07	5.0000E+00
7.0000E-02	2.0852E+01	1.4242E+04	9.2538E+03	1.1048E-06	5.0000E+00
8.0000E-02	2.3231E+01	1.2580E+04	7.1825E+03	1.4198E-06	5.0000E+00
1.0000E-01	2.7183E+01	1.1098E+04	5.3870E+03	1.7521E-06	5.0000E+00
1.2000E-01	2.8819E+01	9.7827E+03	3.8519E+03	2.0959E-06	5.0000E+00
1.4000E-01	3.0265E+01	8.6506E+03	2.5506E+03	2.4462E-06	5.0000E+00
1.6000E-01	3.1545E+01	7.6533E+03	1.4540E+03	2.7889E-06	5.0000E+00
1.8000E-01	3.2680E+01	6.7826E+03	5.3429E+02	3.1508E-06	5.0000E+00
2.0000E-01	3.3689E+01	6.0214E+03	-2.3386E+02	3.4990E-06	5.0000E+00
2.2000E-01	3.4587E+01	5.3545E+03	-8.7251E+02	3.8414E-06	5.0000E+00
2.4000E-01	3.5387E+01	4.7690E+03	-1.4008E+03	4.1764E-06	5.0000E+00
2.6000E-01	3.6102E+01	4.2535E+03	-2.1830E+03	4.5027E-06	5.0000E+00
2.8000E-01	3.6740E+01	3.7933E+03	-2.4755E+03	4.8191E-06	5.0000E+00
3.0000E-01	3.7310E+01	3.3953E+03	-2.7037E+03	5.1250E-06	5.0000E+00
3.2000E-01	3.7821E+01	3.0374E+03	-2.8876E+03	5.4196E-06	5.0000E+00
3.4000E-01	3.8278E+01	2.7186E+03	-3.0195E+03	5.7025E-06	5.0000E+00
3.6000E-01	3.8687E+01	2.4340E+03	-3.1207E+03	5.9751E-06	5.0000E+00
3.8000E-01	3.9053E+01	2.1791E+03	-3.1915E+03	6.2352E-06	5.0000E+00
4.0000E-01	3.9381E+01	1.9504E+03	-3.2466E+03	6.4837E-06	5.0000E+00
4.2000E-01	3.9674E+01	1.7445E+03	-3.2856E+03	6.7207E-06	5.0000E+00
4.4000E-01	3.9936E+01	1.5589E+03	-3.3197E+03	6.9462E-06	5.0000E+00
4.6000E-01	4.0169E+01	1.3911E+03	-3.2843E+03	7.1606E-06	5.0000E+00
4.8000E-01	4.0377E+01	1.2394E+03	-3.2532E+03	7.3642E-06	5.0000E+00
5.0000E-01	4.0377E+01	1.1016E+03	-3.2288E+03	7.5571E-06	5.0000E+00

3.0000E-01	4.0561E+01	9.7645E+02	-3.1933E+03	7.7398E-06	5.0000E+00
3.0000E-01	4.0725E+01	9.6269E+02	-3.1485E+03	7.9125E-06	5.0000E+00
3.0000E-01	4.0668E+01	9.5913E+02	-3.0959E+03	8.0757E-06	5.0000E+00
3.0000E-01	4.0958E+01	6.6477E+02	-3.0369E+03	8.2286E-06	5.0000E+00
3.0000E-01	4.1056E+01	5.7874E+02	-2.9727E+03	8.3748E-06	5.0000E+00
3.0000E-01	4.1201E+01	5.0026E+02	-2.9042E+03	8.5111E-06	5.0000E+00
3.0000E-01	4.1283E+01	4.2886E+02	-2.8324E+03	8.6395E-06	5.0000E+00
3.0000E-01	4.1353E+01	3.6334E+02	-2.7579E+03	8.7601E-06	5.0000E+00
3.0000E-01	4.1413E+01	3.0375E+02	-2.6815E+03	8.8732E-06	5.0000E+00
4.0000E-01	4.1501E+01	1.9989E+02	-2.5250E+03	8.9792E-06	5.0000E+00
4.0000E-01	4.1533E+01	1.5480E+02	-2.4458E+03	9.0785E-06	5.0000E+00
4.0000E-01	4.1557E+01	1.1379E+02	-2.3665E+03	9.1713E-06	5.0000E+00
4.0000E-01	4.1574E+01	7.6537E+01	-2.2875E+03	9.2578E-06	5.0000E+00
4.0000E-01	4.1584E+01	4.2746E+01	-2.2088E+03	9.3388E-06	5.0000E+00
4.0000E-01	4.1589E+01	1.2155E+01	-2.1309E+03	9.4141E-06	5.0000E+00
4.0000E-01	4.1589E+01	-1.5484E+01	-2.0540E+03	9.4842E-06	5.0000E+00
4.0000E-01	4.1584E+01	-4.0393E+01	-1.9781E+03	9.5493E-06	5.0000E+00
4.0000E-01	4.1574E+01	-6.2775E+01	-1.9034E+03	9.6098E-06	5.0000E+00
4.0000E-01	4.1561E+01	-8.2876E+01	-1.8301E+03	9.6658E-06	5.0000E+00
5.0000E-01	4.1545E+01	-1.0072E+02	-1.7583E+03	9.7168E-06	5.0000E+00
5.0000E-01	4.1526E+01	-1.1661E+02	-1.6881E+03	9.7654E-06	5.0000E+00
5.0000E-01	4.1504E+01	-1.3056E+02	-1.6194E+03	9.8095E-06	5.0000E+00
5.0000E-01	4.1478E+01	-1.4300E+02	-1.5535E+03	9.8501E-06	5.0000E+00
5.0000E-01	4.1453E+01	-1.5377E+02	-1.4873E+03	9.8874E-06	5.0000E+00
5.0000E-01	4.1428E+01	-1.6309E+02	-1.4236E+03	9.9216E-06	5.0000E+00
5.0000E-01	4.1395E+01	-1.7107E+02	-1.3621E+03	9.9528E-06	5.0000E+00
5.0000E-01	4.1366E+01	-1.781E+02	-1.3023E+03	9.9814E-06	5.0000E+00
5.0000E-01	4.1332E+01	-1.8342E+02	-1.2442E+03	1.0007E-05	5.0000E+00
5.0000E-01	4.1296E+01	-1.8798E+02	-1.1880E+03	1.0031E-05	5.0000E+00
5.0000E-01	4.1258E+01	-1.9159E+02	-1.1336E+03	1.0052E-05	5.0000E+00
5.0000E-01	4.1218E+01	-1.9432E+02	-1.0810E+03	1.0071E-05	5.0000E+00
5.0000E-01	4.1181E+01	-1.9625E+02	-1.0301E+03	1.0088E-05	5.0000E+00
5.0000E-01	4.1141E+01	-1.9745E+02	-9.8103E+02	1.0104E-05	5.0000E+00
5.0000E-01	4.1091E+01	-1.9798E+02	-9.3370E+02	1.0117E-05	5.0000E+00
5.0000E-01	4.1021E+01	-1.9727E+02	-8.8808E+02	1.0129E-05	5.0000E+00
5.0000E-01	4.0952E+01	-1.9457E+02	-8.4415E+02	1.0140E-05	5.0000E+00
5.0000E-01	4.0918E+01	-1.9260E+02	-8.0188E+02	1.0149E-05	5.0000E+00
5.0000E-01	4.0885E+01	-1.8781E+02	-7.6124E+02	1.0157E-05	5.0000E+00
5.0000E-01	4.0851E+01	-1.8468E+02	-7.2218E+02	1.0164E-05	5.0000E+00
5.0000E-01	4.0819E+01	-1.8111E+02	-6.8470E+02	1.0176E-05	5.0000E+00
5.0000E-01	4.0787E+01	-1.8150E+02	-6.4702E+02	1.0178E-05	5.0000E+00
5.0000E-01	4.0756E+01	-1.7452E+02	-5.8114E+02	1.0180E-05	5.0000E+00
5.0000E-01	4.0725E+01	-1.7078E+02	-5.4948E+02	1.0182E-05	5.0000E+00
5.0000E-01	4.0695E+01	-1.6690E+02	-5.1919E+02	1.0184E-05	5.0000E+00
5.0000E-01	4.0666E+01	-1.6292E+02	-4.9021E+02	1.0184E-05	5.0000E+00
5.0000E-01	4.0637E+01	-1.5884E+02	-4.6252E+02	1.0184E-05	5.0000E+00
5.0000E-01	4.0609E+01	-1.5470E+02	-4.3608E+02	1.0180E-05	5.0000E+00
5.0000E-01	4.0582E+01	-1.5050E+02	-4.1093E+02	1.0180E-05	5.0000E+00
5.0000E-01	4.0556E+01	-1.4626E+02	-3.8775E+02	1.0177E-05	5.0000E+00
5.0000E-01	4.0530E+01	-1.4200E+02	-3.6792E+02	1.0175E-05	5.0000E+00
5.0000E-01	4.0505E+01	-1.3774E+02	-3.2109E+02	1.0172E-05	5.0000E+00
5.0000E-01	4.0481E+01	-1.3348E+02	-3.0127E+02	1.0169E-05	5.0000E+00
5.0000E-01	4.0458E+01	-1.2924E+02	-2.8243E+02	1.0166E-05	5.0000E+00
5.0000E-01	4.0435E+01	-1.2503E+02	-2.6452E+02	1.0162E-05	5.0000E+00
5.0000E-01	4.0414E+01	-1.2086E+02	-2.4751E+02	1.0159E-05	5.0000E+00
5.0000E-01	4.0392E+01	-1.1673E+02	-2.3137E+02	1.0155E-05	5.0000E+00
5.0000E-01	4.0372E+01	-1.1263E+02	-2.1605E+02	1.0151E-05	5.0000E+00
5.0000E-01	4.0352E+01	-1.0863E+02	-2.0154E+02	1.0147E-05	5.0000E+00
5.0000E-01	4.0334E+01	-1.0468E+02	-1.8779E+02	1.0143E-05	5.0000E+00
5.0000E-01	4.0315E+01	-1.0079E+02	-1.7478E+02	1.0139E-05	5.0000E+00
5.0000E-01	4.0298E+01	-9.6984E+01	-1.6246E+02	1.0135E-05	5.0000E+00
5.0000E-01	4.0281E+01	-9.3256E+01	-1.5082E+02	1.0131E-05	5.0000E+00
5.0000E-01	4.0264E+01	-8.9683E+01	-1.3983E+02	1.0127E-05	5.0000E+00

9.6000E-01	4.0265E+01	-8.9607E+01	-1.2945E+02	1.0122E-05	5.0000E+00
9.7000E-01	4.0249E+01	-8.6043E+01	-1.1966E+02	1.0118E-05	5.0000E+00
9.8000E-01	4.0234E+01	-8.2586E+01	-1.1043E+02	1.0114E-05	5.0000E+00
9.9000E-01	4.0220E+01	-7.9177E+01	-1.0174E+02	1.0110E-05	5.0000E+00
1.0000E+00	4.0206E+01	-7.5876E+01	-9.3558E+01	1.0106E-05	5.0000E+00

Appendix #5.

TRANSITION MATRIX AND TIME RESPONSE

A MATRIX.

```

-2.3400E-01  4.7700E-01  0.0000E+00  0.0000E+00
 0.0000E+00 -1.0000E+03  5.6000E+04  0.0000E+00
-5.4825E+01  0.0000E+00 -8.2600E+01  1.7000E+03
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
    
```

INITIAL CONDITIONS.

```

0.0000E+00  0.0000E+00  0.0000E+00  1.0000E+01
    
```

TRANSITION MATRIX.

```

 9.9832E-01  4.1210E-04  2.8491E-02  3.7558E-02
-3.2747E+00  1.3458E-01  4.3461E+01  1.0156E+02
-1.0101E-01 -2.7893E-05  8.4657E-01  3.1379E+00
 0.0000E+00  0.0000E+00  0.0000E+00  1.0000E+00
    
```

TIME RESPONSE.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE
2.0000E-03	3.7558E-01	2.0156E+03	3.1379E+01	1.0000E+01
4.0000E-03	2.0617E+00	1.5126E+03	5.7765E+01	1.0000E+01
6.0000E-03	5.1156E+00	3.8584E+03	7.9970E+01	1.0000E+01
8.0000E-03	9.3511E+00	4.9937E+03	9.8404E+01	1.0000E+01
1.0000E-02	1.4573E+01	5.9338E+03	1.1355E+02	1.0000E+01
1.2000E-02	2.0604E+01	6.7015E+03	1.2582E+02	1.0000E+01
1.4000E-02	2.7282E+01	7.3183E+03	1.3558E+02	1.0000E+01
1.6000E-02	3.4500E+01	7.8034E+03	1.4314E+02	1.0000E+01
1.8000E-02	4.2112E+01	8.1739E+03	1.4881E+02	1.0000E+01
2.0000E-02	5.0025E+01	8.4450E+03	1.5282E+02	1.0000E+01
2.2000E-02	5.8151E+01	8.6301E+03	1.5541E+02	1.0000E+01
2.4000E-02	6.6413E+01	8.7411E+03	1.5678E+02	1.0000E+01
2.6000E-02	7.4746E+01	8.7884E+03	1.5710E+02	1.0000E+01
2.8000E-02	8.3094E+01	8.7815E+03	1.5653E+02	1.0000E+01
3.0000E-02	9.1409E+01	8.7284E+03	1.5521E+02	1.0000E+01
3.2000E-02	9.9650E+01	8.6363E+03	1.5324E+02	1.0000E+01
3.4000E-02	1.0778E+02	8.5117E+03	1.5075E+02	1.0000E+01
3.6000E-02	1.1678E+02	8.3601E+03	1.4783E+02	1.0000E+01
3.8000E-02	1.2362E+02	8.1863E+03	1.4455E+02	1.0000E+01
4.0000E-02	1.3128E+02	7.9946E+03	1.4098E+02	1.0000E+01
4.2000E-02	1.3875E+02	7.7886E+03	1.3720E+02	1.0000E+01
4.4000E-02	1.4601E+02	7.5721E+03	1.3324E+02	1.0000E+01
4.6000E-02	1.5305E+02	7.3474E+03	1.2917E+02	1.0000E+01
4.8000E-02	1.5988E+02	7.1170E+03	1.2501E+02	1.0000E+01
5.0000E-02	1.6648E+02	6.8830E+03	1.2081E+02	1.0000E+01
5.2000E-02	1.7286E+02	6.6474E+03	1.1660E+02	1.0000E+01
5.4000E-02	1.7900E+02	6.4115E+03	1.1239E+02	1.0000E+01
5.6000E-02	1.8492E+02	6.1768E+03	1.0821E+02	1.0000E+01
5.8000E-02	1.9062E+02	5.9444E+03	1.0409E+02	1.0000E+01
6.0000E-02	1.9609E+02	5.7151E+03	1.0003E+02	1.0000E+01
6.2000E-02	2.0134E+02	5.4898E+03	9.6041E+01	1.0000E+01

6.4000E-02	2.0638E+02	5.2691E+03	9.2143E+01	1.0000E+01
6.6000E-02	2.1120E+02	5.0535E+03	8.6341E+01	1.0000E+01
6.8000E-02	2.1582E+02	4.8435E+03	8.4641E+01	1.0000E+01
7.0000E-02	2.2044E+02	4.6395E+03	8.1047E+01	1.0000E+01
7.2000E-02	2.2447E+02	4.4415E+03	7.7565E+01	1.0000E+01
7.4000E-02	2.2851E+02	4.2495E+03	7.4195E+01	1.0000E+01
7.6000E-02	2.3236E+02	4.0635E+03	7.0938E+01	1.0000E+01
7.8000E-02	2.3605E+02	3.8841E+03	6.7799E+01	1.0000E+01
8.0000E-02	2.3956E+02	3.7120E+03	6.4773E+01	1.0000E+01
8.2000E-02	2.4291E+02	3.5458E+03	6.1862E+01	1.0000E+01
8.4000E-02	2.4610E+02	3.3859E+03	5.9064E+01	1.0000E+01
8.6000E-02	2.4914E+02	3.2324E+03	5.6378E+01	1.0000E+01
8.8000E-02	2.5203E+02	3.0850E+03	5.3800E+01	1.0000E+01
9.0000E-02	2.5476E+02	2.9437E+03	5.1330E+01	1.0000E+01
9.2000E-02	2.5739E+02	2.8082E+03	4.8964E+01	1.0000E+01
9.4000E-02	2.5991E+02	2.6786E+03	4.6700E+01	1.0000E+01
9.6000E-02	2.6228E+02	2.5548E+03	4.4535E+01	1.0000E+01
9.8000E-02	2.6454E+02	2.4360E+03	4.2468E+01	1.0000E+01
1.0000E-01	2.6669E+02	2.3228E+03	4.0490E+01	1.0000E+01
1.0200E-01	2.6872E+02	2.2148E+03	3.8603E+01	1.0000E+01
1.0400E-01	2.7066E+02	2.1114E+03	3.6803E+01	1.0000E+01
1.0600E-01	2.7250E+02	2.0129E+03	3.5086E+01	1.0000E+01
1.0800E-01	2.7425E+02	1.9190E+03	3.3450E+01	1.0000E+01
1.1000E-01	2.7591E+02	1.8295E+03	3.1891E+01	1.0000E+01
1.1200E-01	2.7748E+02	1.7443E+03	3.0406E+01	1.0000E+01
1.1400E-01	2.7898E+02	1.6631E+03	2.8992E+01	1.0000E+01
1.1600E-01	2.8040E+02	1.5859E+03	2.7646E+01	1.0000E+01
1.1800E-01	2.8174E+02	1.5123E+03	2.6365E+01	1.0000E+01
1.2000E-01	2.8302E+02	1.4424E+03	2.5148E+01	1.0000E+01
1.2200E-01	2.8423E+02	1.3759E+03	2.3990E+01	1.0000E+01
1.2400E-01	2.8538E+02	1.3126E+03	2.2889E+01	1.0000E+01
1.2600E-01	2.8647E+02	1.2525E+03	2.1835E+01	1.0000E+01
1.2800E-01	2.8750E+02	1.1954E+03	2.0849E+01	1.0000E+01
1.3000E-01	2.8848E+02	1.1411E+03	1.9905E+01	1.0000E+01
1.3200E-01	2.8941E+02	1.0896E+03	1.9082E+01	1.0000E+01
1.3400E-01	2.9029E+02	1.0406E+03	1.8356E+01	1.0000E+01
1.3600E-01	2.9112E+02	9.9411E+02	1.7748E+01	1.0000E+01
1.3800E-01	2.9192E+02	9.4699E+02	1.6580E+01	1.0000E+01
1.4000E-01	2.9266E+02	8.9810E+02	1.5852E+01	1.0000E+01
1.4200E-01	2.9337E+02	8.4836E+02	1.5161E+01	1.0000E+01
1.4400E-01	2.9405E+02	8.0065E+02	1.4505E+01	1.0000E+01
1.4600E-01	2.9469E+02	7.5488E+02	1.3883E+01	1.0000E+01
1.4800E-01	2.9528E+02	7.0994E+02	1.3293E+01	1.0000E+01
1.5000E-01	2.9582E+02	6.6824E+02	1.2734E+01	1.0000E+01
1.5200E-01	2.9632E+02	6.9930E+02	1.2203E+01	1.0000E+01
1.5400E-01	2.9678E+02	6.4186E+02	1.1700E+01	1.0000E+01
1.5600E-01	2.9720E+02	6.1585E+02	1.1223E+01	1.0000E+01
1.5800E-01	2.9766E+02	5.9119E+02	1.0771E+01	1.0000E+01
1.6000E-01	2.9800E+02	5.6782E+02	1.0343E+01	1.0000E+01
1.6200E-01	2.9871E+02	5.4567E+02	9.9365E+00	1.0000E+01
1.6400E-01	2.9910E+02	5.2468E+02	9.5516E+00	1.0000E+01
1.6600E-01	2.9947E+02	5.0479E+02	9.1869E+00	1.0000E+01
1.6800E-01	2.9982E+02	4.8595E+02	8.8413E+00	1.0000E+01
1.7000E-01	3.0016E+02	4.6809E+02	8.5138E+00	1.0000E+01
1.7200E-01	3.0047E+02	4.5117E+02	8.2036E+00	1.0000E+01
1.7400E-01	3.0077E+02	4.3515E+02	7.9097E+00	1.0000E+01
1.7600E-01	3.0105E+02	4.1997E+02	7.6313E+00	1.0000E+01
1.7800E-01	3.0132E+02	4.0559E+02	7.3675E+00	1.0000E+01
1.8000E-01	3.0157E+02	3.9187E+02	7.1175E+00	1.0000E+01
1.8200E-01	3.0181E+02	3.7907E+02	6.8812E+00	1.0000E+01
1.8400E-01	3.0204E+02	3.6866E+02	6.6571E+00	1.0000E+01
1.8600E-01	3.0225E+02	3.5529E+02	6.445E+00	1.0000E+01
1.8800E-01	3.0245E+02	3.4433E+02	6.2439E+00	1.0000E+01
1.9000E-01	3.0265E+02	3.3396E+02	6.0536E+00	1.0000E+01
1.9200E-01	3.0283E+02	3.2413E+02	5.8734E+00	1.0000E+01
1.9400E-01	3.0300E+02	3.1473E+02	5.7028E+00	1.0000E+01

1.8600E-01	3.0316E+02	3.1483E+02	5.5417E+00	1.0000E+01
1.8800E-01	3.0326E+02	3.0602E+02	5.3882E+00	1.0000E+01
2.0000E-01	3.0346E+02	2.9769E+02	5.2434E+00	1.0000E+01
2.0200E-01	3.0360E+02	2.8979E+02	5.1063E+00	1.0000E+01
2.0400E-01	3.0373E+02	2.8232E+02	4.9764E+00	1.0000E+01
2.0600E-01	3.0386E+02	2.7524E+02	4.8539E+00	1.0000E+01
2.0800E-01	3.0397E+02	2.6854E+02	4.7375E+00	1.0000E+01
2.1000E-01	3.0408E+02	2.6220E+02	4.6271E+00	1.0000E+01
2.1200E-01	3.0419E+02	2.5620E+02	4.5226E+00	1.0000E+01
2.1400E-01	3.0429E+02	2.5051E+02	4.4241E+00	1.0000E+01
2.1600E-01	3.0438E+02	2.4513E+02	4.3307E+00	1.0000E+01
2.1800E-01	3.0447E+02	2.4004E+02	4.2422E+00	1.0000E+01
2.2000E-01	3.0456E+02	2.3522E+02	4.1585E+00	1.0000E+01
2.2200E-01	3.0463E+02	2.3068E+02	4.0793E+00	1.0000E+01
2.2400E-01	3.0471E+02	2.2634E+02	4.0043E+00	1.0000E+01
2.2600E-01	3.0478E+02	2.2225E+02	3.9333E+00	1.0000E+01
2.2800E-01	3.0485E+02	2.1838E+02	3.8661E+00	1.0000E+01
2.3000E-01	3.0491E+02	2.1472E+02	3.8035E+00	1.0000E+01
2.3200E-01	3.0497E+02	2.1125E+02	3.7423E+00	1.0000E+01
2.3400E-01	3.0503E+02	2.0797E+02	3.6853E+00	1.0000E+01
2.3600E-01	3.0508E+02	2.0487E+02	3.6314E+00	1.0000E+01
2.3800E-01	3.0514E+02	2.0193E+02	3.5804E+00	1.0000E+01
2.4000E-01	3.0518E+02	1.9915E+02	3.5321E+00	1.0000E+01
2.4200E-01	3.0523E+02	1.9652E+02	3.4864E+00	1.0000E+01
2.4400E-01	3.0527E+02	1.9403E+02	3.4431E+00	1.0000E+01
2.4600E-01	3.0532E+02	1.9167E+02	3.4022E+00	1.0000E+01
2.4800E-01	3.0535E+02	1.8944E+02	3.3634E+00	1.0000E+01
2.5000E-01	3.0539E+02	1.8732E+02	3.3267E+00	1.0000E+01
2.5200E-01	3.0543E+02	1.8533E+02	3.2920E+00	1.0000E+01
2.5400E-01	3.0546E+02	1.8343E+02	3.2592E+00	1.0000E+01
2.5600E-01	3.0549E+02	1.8165E+02	3.2281E+00	1.0000E+01
2.5800E-01	3.0552E+02	1.7995E+02	3.1987E+00	1.0000E+01
2.6000E-01	3.0555E+02	1.7835E+02	3.1709E+00	1.0000E+01
2.6200E-01	3.0557E+02	1.7683E+02	3.1445E+00	1.0000E+01
2.6400E-01	3.0560E+02	1.7540E+02	3.1192E+00	1.0000E+01
2.6600E-01	3.0562E+02	1.7404E+02	3.0950E+00	1.0000E+01
2.6800E-01	3.0564E+02	1.7275E+02	3.0737E+00	1.0000E+01
2.7000E-01	3.0567E+02	1.7153E+02	3.0526E+00	1.0000E+01
2.7200E-01	3.0569E+02	1.7038E+02	3.0326E+00	1.0000E+01
2.7400E-01	3.0571E+02	1.6928E+02	3.0137E+00	1.0000E+01
2.7600E-01	3.0572E+02	1.6822E+02	2.9958E+00	1.0000E+01
2.7800E-01	3.0574E+02	1.6720E+02	2.9788E+00	1.0000E+01
2.8000E-01	3.0576E+02	1.6620E+02	2.9628E+00	1.0000E+01
2.8200E-01	3.0577E+02	1.6523E+02	2.9478E+00	1.0000E+01
2.8400E-01	3.0579E+02	1.6429E+02	2.9333E+00	1.0000E+01
2.8600E-01	3.0580E+02	1.6337E+02	2.9197E+00	1.0000E+01
2.8800E-01	3.0581E+02	1.6244E+02	2.9066E+00	1.0000E+01
2.9000E-01	3.0582E+02	1.6155E+02	2.8946E+00	1.0000E+01
2.9200E-01	3.0584E+02	1.6178E+02	2.8831E+00	1.0000E+01
2.9400E-01	3.0585E+02	1.6115E+02	2.8722E+00	1.0000E+01
2.9600E-01	3.0586E+02	1.6056E+02	2.8619E+00	1.0000E+01
2.9800E-01	3.0587E+02	1.5999E+02	2.8522E+00	1.0000E+01
3.0000E-01	3.0588E+02	1.5946E+02	2.8429E+00	1.0000E+01
3.0200E-01	3.0589E+02	1.5896E+02	2.8342E+00	1.0000E+01
3.0400E-01	3.0590E+02	1.5848E+02	2.8259E+00	1.0000E+01
3.0600E-01	3.0591E+02	1.5803E+02	2.8181E+00	1.0000E+01
3.0800E-01	3.0592E+02	1.5761E+02	2.8107E+00	1.0000E+01
3.1000E-01	3.0592E+02	1.5720E+02	2.8037E+00	1.0000E+01
3.1200E-01	3.0593E+02	1.5682E+02	2.7970E+00	1.0000E+01
3.1400E-01	3.0593E+02	1.5646E+02	2.7908E+00	1.0000E+01
3.1600E-01	3.0594E+02	1.5612E+02	2.7846E+00	1.0000E+01
3.1800E-01	3.0594E+02	1.5579E+02	2.7782E+00	1.0000E+01
3.2000E-01	3.0595E+02	1.5545E+02	2.7719E+00	1.0000E+01
3.2200E-01	3.0595E+02	1.5512E+02	2.7659E+00	1.0000E+01
3.2400E-01	3.0596E+02	1.5480E+02	2.7614E+00	1.0000E+01
3.2600E-01	3.0596E+02	1.5446E+02	2.7596E+00	1.0000E+01

3.2800E-01	3.0598E+02	1.5442E+02	2.7553E+00	1.0000E+01
3.3000E-01	3.0597E+02	1.5419E+02	2.7513E+00	1.0000E+01
3.3200E-01	3.0597E+02	1.5397E+02	2.7475E+00	1.0000E+01
3.3400E-01	3.0598E+02	1.5376E+02	2.7439E+00	1.0000E+01
3.3600E-01	3.0598E+02	1.5355E+02	2.7405E+00	1.0000E+01
3.3800E-01	3.0598E+02	1.5336E+02	2.7372E+00	1.0000E+01
3.4000E-01	3.0599E+02	1.5308E+02	2.7342E+00	1.0000E+01
3.4200E-01	3.0599E+02	1.5303E+02	2.7313E+00	1.0000E+01
3.4400E-01	3.0599E+02	1.5287E+02	2.7285E+00	1.0000E+01
3.4600E-01	3.0600E+02	1.5273E+02	2.7259E+00	1.0000E+01
3.4800E-01	3.0600E+02	1.5258E+02	2.7235E+00	1.0000E+01
3.5000E-01	3.0600E+02	1.5245E+02	2.7212E+00	1.0000E+01
3.5200E-01	3.0600E+02	1.5232E+02	2.7190E+00	1.0000E+01
3.5400E-01	3.0600E+02	1.5220E+02	2.7169E+00	1.0000E+01
3.5600E-01	3.0600E+02	1.5209E+02	2.7150E+00	1.0000E+01
3.5800E-01	3.0601E+02	1.5198E+02	2.7131E+00	1.0000E+01
3.6000E-01	3.0601E+02	1.5188E+02	2.7113E+00	1.0000E+01
3.6200E-01	3.0601E+02	1.5179E+02	2.7097E+00	1.0000E+01
3.6400E-01	3.0601E+02	1.5170E+02	2.7081E+00	1.0000E+01
3.6600E-01	3.0601E+02	1.5161E+02	2.7066E+00	1.0000E+01
3.6800E-01	3.0602E+02	1.5153E+02	2.7052E+00	1.0000E+01
3.7000E-01	3.0602E+02	1.5145E+02	2.7039E+00	1.0000E+01
3.7200E-01	3.0602E+02	1.5138E+02	2.7026E+00	1.0000E+01
3.7400E-01	3.0602E+02	1.5131E+02	2.7014E+00	1.0000E+01
3.7600E-01	3.0602E+02	1.5125E+02	2.7003E+00	1.0000E+01
3.7800E-01	3.0602E+02	1.5119E+02	2.6992E+00	1.0000E+01
3.8000E-01	3.0602E+02	1.5113E+02	2.6982E+00	1.0000E+01
3.8200E-01	3.0602E+02	1.5107E+02	2.6973E+00	1.0000E+01
3.8400E-01	3.0602E+02	1.5102E+02	2.6964E+00	1.0000E+01
3.8600E-01	3.0602E+02	1.5097E+02	2.6955E+00	1.0000E+01
3.8800E-01	3.0602E+02	1.5092E+02	2.6947E+00	1.0000E+01
3.9000E-01	3.0603E+02	1.5088E+02	2.6939E+00	1.0000E+01
3.9200E-01	3.0603E+02	1.5084E+02	2.6932E+00	1.0000E+01
3.9400E-01	3.0603E+02	1.5080E+02	2.6925E+00	1.0000E+01
3.9600E-01	3.0603E+02	1.5076E+02	2.6919E+00	1.0000E+01
3.9800E-01	3.0603E+02	1.5073E+02	2.6912E+00	1.0000E+01
4.0000E-01	3.0603E+02	1.5069E+02	2.6907E+00	1.0000E+01



Appendix #6.

TRANSITION MATRIX AND TIME RESPONSE

.....

A MATRIX.

-9.2390E+00 6.4750E+02  
0.0000E+00 0.0000E+00

INITIAL CONDITIONS.

0.0000E+00 1.0000E+01

.....

TRANSITION MATRIX.

9.1175E-01 6.1849E+00  
0.0000E+00 1.0000E+00

.....

TIME RESPONSE.

TIME	1 VARIABLE	2 VARIABLE
1.0000E-02	6.1849E+01	1.0000E+01
2.0000E-02	1.1827E+02	1.0000E+01
3.0000E-02	1.6965E+02	1.0000E+01
4.0000E-02	2.1853E+02	1.0000E+01
5.0000E-02	2.5927E+02	1.0000E+01
6.0000E-02	2.9824E+02	1.0000E+01
7.0000E-02	3.3377E+02	1.0000E+01
8.0000E-02	3.6616E+02	1.0000E+01
9.0000E-02	3.9570E+02	1.0000E+01
1.0000E-01	4.2263E+02	1.0000E+01
1.2000E-01	4.4718E+02	1.0000E+01
1.4000E-01	4.6956E+02	1.0000E+01
1.6000E-01	4.8997E+02	1.0000E+01
1.8000E-01	5.0858E+02	1.0000E+01
2.0000E-01	5.2555E+02	1.0000E+01
2.2000E-01	5.4102E+02	1.0000E+01
2.4000E-01	5.5798E+02	1.0000E+01
2.6000E-01	5.7970E+02	1.0000E+01
2.8000E-01	6.0014E+02	1.0000E+01
3.0000E-01	6.1713E+02	1.0000E+01
3.2000E-01	6.2452E+02	1.0000E+01
3.4000E-01	6.3125E+02	1.0000E+01
3.6000E-01	6.3739E+02	1.0000E+01
3.8000E-01	6.4299E+02	1.0000E+01
4.0000E-01	6.4809E+02	1.0000E+01
4.2000E-01	6.5275E+02	1.0000E+01
4.4000E-01	6.5699E+02	1.0000E+01
4.6000E-01	6.6086E+02	1.0000E+01
4.8000E-01	6.6439E+02	1.0000E+01
5.0000E-01	6.6780E+02	1.0000E+01
5.2000E-01	6.7054E+02	1.0000E+01
5.4000E-01	6.7321E+02	1.0000E+01

3.5000E-01	6.7565E+02	1.0000E+01
3.7000E-01	6.7787E+02	1.0000E+01
3.8000E-01	6.7990E+02	1.0000E+01
3.9000E-01	6.8175E+02	1.0000E+01
4.0000E-01	6.8343E+02	1.0000E+01
4.1000E-01	6.8497E+02	1.0000E+01
4.2000E-01	6.8637E+02	1.0000E+01
4.3000E-01	6.8764E+02	1.0000E+01
4.4000E-01	6.8881E+02	1.0000E+01
4.5000E-01	6.8987E+02	1.0000E+01
4.6000E-01	6.9084E+02	1.0000E+01
4.7000E-01	6.9172E+02	1.0000E+01
4.8000E-01	6.9252E+02	1.0000E+01
4.9000E-01	6.9328E+02	1.0000E+01
5.0000E-01	6.9397E+02	1.0000E+01
5.1000E-01	6.9457E+02	1.0000E+01
5.2000E-01	6.9509E+02	1.0000E+01
5.3000E-01	6.9560E+02	1.0000E+01
5.4000E-01	6.9606E+02	1.0000E+01
5.5000E-01	6.9648E+02	1.0000E+01
5.6000E-01	6.9686E+02	1.0000E+01
5.7000E-01	6.9721E+02	1.0000E+01
5.8000E-01	6.9753E+02	1.0000E+01
5.9000E-01	6.9782E+02	1.0000E+01
6.0000E-01	6.9808E+02	1.0000E+01
6.1000E-01	6.9833E+02	1.0000E+01
6.2000E-01	6.9855E+02	1.0000E+01
6.3000E-01	6.9875E+02	1.0000E+01
6.4000E-01	6.9894E+02	1.0000E+01
6.5000E-01	6.9911E+02	1.0000E+01
6.6000E-01	6.9926E+02	1.0000E+01
6.7000E-01	6.9940E+02	1.0000E+01
6.8000E-01	6.9952E+02	1.0000E+01
6.9000E-01	6.9964E+02	1.0000E+01
7.0000E-01	6.9974E+02	1.0000E+01
7.1000E-01	6.9984E+02	1.0000E+01
7.2000E-01	6.9993E+02	1.0000E+01
7.3000E-01	7.0001E+02	1.0000E+01
7.4000E-01	7.0008E+02	1.0000E+01
7.5000E-01	7.0015E+02	1.0000E+01
7.6000E-01	7.0021E+02	1.0000E+01
7.7000E-01	7.0026E+02	1.0000E+01
7.8000E-01	7.0031E+02	1.0000E+01
7.9000E-01	7.0036E+02	1.0000E+01
8.0000E-01	7.0040E+02	1.0000E+01
8.1000E-01	7.0044E+02	1.0000E+01
8.2000E-01	7.0047E+02	1.0000E+01
8.3000E-01	7.0051E+02	1.0000E+01
8.4000E-01	7.0053E+02	1.0000E+01
8.5000E-01	7.0055E+02	1.0000E+01
8.6000E-01	7.0058E+02	1.0000E+01
8.7000E-01	7.0061E+02	1.0000E+01
8.8000E-01	7.0063E+02	1.0000E+01
8.9000E-01	7.0064E+02	1.0000E+01
9.0000E-01	7.0066E+02	1.0000E+01
9.1000E-01	7.0068E+02	1.0000E+01
9.2000E-01	7.0069E+02	1.0000E+01
9.3000E-01	7.0070E+02	1.0000E+01
9.4000E-01	7.0071E+02	1.0000E+01
9.5000E-01	7.0072E+02	1.0000E+01
9.6000E-01	7.0073E+02	1.0000E+01
9.7000E-01	7.0074E+02	1.0000E+01
9.8000E-01	7.0075E+02	1.0000E+01
9.9000E-01	7.0076E+02	1.0000E+01
1.0000E+00	7.0076E+02	1.0000E+01

Appendix #7.

TRANSITION MATRIX AND TIME RESPONSE

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A MATRIX.

0.0000E+00	1.7760E-02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
-5.8740E+04	-2.7800E+01	3.3586E+03	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
-4.3217E+04	-8.4870E+02	-2.2000E+03	1.9420E+08	5.5310E+15	1.5720E+05	1.5720E+05	1.5720E+05	1.5720E+05	1.5720E+05
-7.0389E-02	-1.3820E-03	0.0000E+00	-2.5600E+01	8.0100E+09	4.8170E-08	4.8170E-08	4.8170E-08	4.8170E-08	4.8170E-08
-1.3235E+08	-4.9130E-12	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
-1.3737E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
-1.3737E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
-1.8500E-08	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

INITIAL CONDITIONS.

0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
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TRANSITION MATRIX.

9.3878E-01	-3.7777E-07	2.3758E-07	9.0698E+00	9.6762E+08	2.6444E-01	2.6444E-01	2.6444E-01	2.6444E-01	2.6444E-01
-5.7686E+02	2.1075E-02	2.5606E-02	-1.4710E+04	4.4572E+12	2.7528E+03	2.7528E+03	2.7528E+03	2.7528E+03	2.7528E+03
1.2409E+00	-7.1567E-03	6.5484E-03	3.0874E+03	-1.3787E+09	6.8654E+01	6.8654E+01	6.8654E+01	6.8654E+01	6.8654E+01
-8.3345E-11	-3.6138E-16	-4.3700E-08	1.6895E-02	-1.9847E+05	9.2634E-04	9.2634E-04	9.2634E-04	9.2634E-04	9.2634E-04
-1.0184E-02	-3.2237E-08	-9.9083E-16	3.2096E-09	6.7814E-01	3.9805E-10	3.9805E-10	3.9805E-10	3.9805E-10	3.9805E-10
-8.6615E-03	-2.4148E-08	-3.8869E-08	-8.0784E-02	5.6299E+08	9.5892E-01	9.5892E-01	9.5892E-01	9.5892E-01	9.5892E-01
1.7406E-08	6.3896E-14	9.7371E-14	-1.3185E-07	8.8840E+08	-9.3738E-04	-9.3738E-04	-9.3738E-04	-9.3738E-04	-9.3738E-04
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.6401E-09	1.6401E-09	1.6401E-09	1.6401E-09	1.6401E-09

TIME RESPONSE.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
1.0000E-02	1.6651E+00	1.5870E+04	4.1725E+02	4.7356E-03	2.3050E-09	2.7935E-01	2.3776E-01
2.0000E-02	4.9860E+00	2.1058E+04	2.4351E+02	2.2409E-03	3.0631E-09	4.3555E-01	3.0922E-01
3.0000E-02	8.870E+00	2.1578E+04	1.8832E+02	1.5112E-03	3.1473E-09	5.2661E-01	3.0873E-01
4.0000E-02	1.2249E+01	2.0236E+04	2.0200E+02	1.6194E-03	2.9533E-09	5.8202E-01	2.7453E-01
5.0000E-02	1.5517E+01	1.8272E+04	2.4291E+02	2.0806E-03	2.6704E-09	6.1687E-01	2.3311E-01
6.0000E-02	1.8438E+01	1.6230E+04	2.9194E+02	2.6047E-03	2.3233E-09	6.3885E-01	1.9150E-01
7.0000E-02	2.1016E+01	1.4330E+04	3.4072E+02	3.1507E-03	2.0862E-09	6.5237E-01	1.5335E-01
8.0000E-02	2.3291E+01	1.2642E+04	3.8594E+02	3.6581E-03	1.8499E-09	6.5965E-01	1.1979E-01
9.0000E-02	2.5296E+01	1.1170E+04	4.2858E+02	4.1142E-03	1.6351E-09	6.6262E-01	9.0878E-02
1.0000E-01	2.7069E+01	9.8978E+03	4.6264E+02	4.5185E-03	1.4844E-09	6.6101E-01	6.8229E-02
1.2000E-01	2.8641E+01	8.7971E+03	4.9448E+02	4.8749E-03	1.2887E-09	6.5676E-01	4.5329E-02
1.4000E-01	3.0039E+01	7.8430E+03	5.2260E+02	5.1891E-03	1.1494E-09	6.4997E-01	2.7659E-02
1.6000E-01	3.1285E+01	7.0121E+03	5.4747E+02	5.4664E-03	1.0282E-09	6.4106E-01	1.2750E-02
1.8000E-01	3.2399E+01	6.2951E+03	5.6852E+02	5.7120E-03	9.2206E-10	6.3039E-01	1.9316E-04
1.9000E-01	3.3386E+01	5.6458E+03	5.8913E+02	5.9295E-03	8.2875E-10	6.1826E-01	-1.0360E-02
1.9000E-01	3.4292E+01	5.0809E+03	6.0661E+02	6.1205E-03	7.4630E-10	6.0495E-01	-1.9204E-02
1.7000E-01	3.5036E+01	4.5795E+03	6.2232E+02	6.2972E-03	6.7314E-10	5.9066E-01	-2.6586E-02
1.8000E-01	3.5821E+01	4.1328E+03	6.3627E+02	6.4520E-03	6.0794E-10	5.7561E-01	-3.2714E-02
1.9000E-01	3.6473E+01	3.7333E+03	6.4877E+02	6.5907E-03	5.4964E-10	5.5996E-01	-3.7768E-02
2.0000E-01	3.7060E+01	3.3749E+03	6.6004E+02	6.7152E-03	4.9734E-10	5.4366E-01	-4.1895E-02

2. 1000E-01	3. 7590E+01	3. 0533E+03	6. 7018E+02	6. 8269E-03	4. 5027E-10	5. 2744E-01	-4. 5226E-02
2. 2000E-01	3. 8098E+01	2. 7613E+03	6. 7927E+02	6. 8274E-03	4. 0780E-10	5. 1082E-01	-4. 7869E-02
2. 3000E-01	3. 8498E+01	2. 4902E+03	6. 8746E+02	7. 0176E-03	3. 6940E-10	4. 9409E-01	-4. 9919E-02
2. 4000E-01	3. 8855E+01	2. 2537E+03	6. 9483E+02	7. 0908E-03	3. 3459E-10	4. 7733E-01	-5. 1456E-02
2. 5000E-01	3. 9234E+01	2. 0431E+03	7. 0145E+02	7. 1717E-03	3. 0299E-10	4. 6063E-01	-5. 2557E-02
2. 6000E-01	3. 9548E+01	1. 8688E+03	7. 0740E+02	7. 2372E-03	2. 7425E-10	4. 403E-01	-5. 3266E-02
2. 7000E-01	3. 9829E+01	1. 6686E+03	7. 1274E+02	7. 2960E-03	2. 4807E-10	4. 2760E-01	-5. 3657E-02
2. 8000E-01	4. 0081E+01	1. 5033E+03	7. 1753E+02	7. 3487E-03	2. 2420E-10	4. 1138E-01	-5. 3719E-02
2. 9000E-01	4. 0307E+01	1. 3540E+03	7. 2182E+02	7. 3959E-03	2. 0241E-10	3. 9541E-01	-5. 3759E-02
3. 0000E-01	4. 0508E+01	1. 2175E+03	7. 2564E+02	7. 4300E-03	1. 8250E-10	3. 7972E-01	-5. 3759E-02
3. 1000E-01	4. 0687E+01	1. 0928E+03	7. 2905E+02	7. 456E-03	1. 6429E-10	3. 6435E-01	-5. 3759E-02
3. 2000E-01	4. 0846E+01	9. 7861E+02	7. 3208E+02	7. 5089E-03	1. 4763E-10	3. 4930E-01	-5. 2056E-02
3. 3000E-01	4. 1095E+01	8. 7413E+02	7. 3476E+02	7. 5385E-03	1. 3237E-10	3. 3461E-01	-5. 1252E-02
3. 4000E-01	4. 1216E+01	7. 7848E+02	7. 3712E+02	7. 5646E-03	1. 1841E-10	3. 2028E-01	-4. 9334E-02
3. 5000E-01	4. 1389E+01	6. 9089E+02	7. 3919E+02	7. 5875E-03	1. 0563E-10	3. 0533E-01	-4. 8256E-02
3. 6000E-01	4. 1509E+01	6. 1071E+02	7. 4100E+02	7. 6075E-03	9. 3920E-11	2. 9477E-01	-4. 7118E-02
3. 7000E-01	4. 1589E+01	5. 3731E+02	7. 4256E+02	7. 6249E-03	8. 3203E-11	2. 7860E-01	-4. 5931E-02
3. 8000E-01	4. 1457E+01	4. 7015E+02	7. 4390E+02	7. 6398E-03	7. 3399E-11	2. 6863E-01	-4. 4707E-02
3. 9000E-01	4. 1514E+01	4. 0874E+02	7. 4504E+02	7. 6525E-03	6. 4430E-11	2. 5448E-01	-4. 3456E-02
4. 0000E-01	4. 1595E+01	3. 5263E+02	7. 4599E+02	7. 6632E-03	5. 8233E-11	2. 4248E-01	-4. 2184E-02
4. 1000E-01	4. 1629E+01	3. 0140E+02	7. 4678E+02	7. 6721E-03	4. 6758E-11	2. 3091E-01	-4. 0899E-02
4. 2000E-01	4. 1651E+01	2. 5469E+02	7. 4741E+02	7. 6783E-03	4. 1933E-11	2. 1973E-01	-3. 9608E-02
4. 3000E-01	4. 1668E+01	2. 1214E+02	7. 4789E+02	7. 6849E-03	3. 5719E-11	2. 0894E-01	-3. 8317E-02
4. 4000E-01	4. 1675E+01	1. 7345E+02	7. 4825E+02	7. 6891E-03	3. 0067E-11	1. 9855E-01	-3. 7029E-02
4. 5000E-01	4. 1678E+01	1. 3833E+02	7. 4850E+02	7. 6921E-03	2. 4938E-11	1. 8853E-01	-3. 5750E-02
4. 6000E-01	4. 1678E+01	1. 0651E+02	7. 4863E+02	7. 6939E-03	2. 0286E-11	1. 7889E-01	-3. 4482E-02
4. 7000E-01	4. 1659E+01	7. 774E+01	7. 4866E+02	7. 6947E-03	1. 6083E-11	1. 6963E-01	-3. 3230E-02
4. 8000E-01	4. 1659E+01	5. 1616E+01	7. 4866E+02	7. 6945E-03	1. 2293E-11	1. 6072E-01	-3. 1995E-02
4. 9000E-01	4. 1545E+01	2. 8511E+01	7. 4831E+02	7. 6935E-03	8. 6869E-12	1. 5217E-01	-3. 0780E-02
5. 0000E-01	4. 1545E+01	1. 7629E+00	7. 4832E+02	7. 6917E-03	5. 8344E-12	1. 4397E-01	-2. 9588E-02
5. 1000E-01	4. 1505E+01	-1. 1000E+01	7. 4806E+02	7. 6892E-03	3. 1107E-12	1. 3611E-01	-2. 8419E-02
5. 2000E-01	4. 1581E+01	-2. 7554E+01	7. 4775E+02	7. 6861E-03	6. 8945E-13	1. 2858E-01	-2. 7276E-02
5. 3000E-01	4. 1556E+01	-4. 2178E+01	7. 4739E+02	7. 6824E-03	-1. 4508E-12	1. 2137E-01	-2. 6159E-02
5. 4000E-01	4. 1556E+01	-5. 5074E+01	7. 4698E+02	7. 6783E-03	-3. 3309E-12	1. 1447E-01	-2. 5070E-02
5. 5000E-01	4. 1498E+01	-6. 8230E+01	7. 4654E+02	7. 6738E-03	-4. 9711E-12	1. 0789E-01	-2. 4008E-02
5. 6000E-01	4. 1467E+01	-7. 5917E+01	7. 4606E+02	7. 6689E-03	-6. 3893E-12	1. 0158E-01	-2. 2975E-02
5. 7000E-01	4. 1435E+01	-8. 4195E+01	7. 4558E+02	7. 6636E-03	-8. 6287E-12	9. 5562E-02	-2. 1972E-02
5. 8000E-01	4. 1401E+01	-9. 1187E+01	7. 4503E+02	7. 6581E-03	-9. 4806E-12	8. 824E-02	-2. 0957E-02
5. 9000E-01	4. 1367E+01	-9. 6955E+01	7. 4447E+02	7. 6523E-03	-1. 0173E-11	8. 4353E-02	-2. 0053E-02
6. 0000E-01	4. 1332E+01	-1. 0711E+02	7. 4390E+02	7. 6464E-03	-1. 0720E-11	7. 9141E-02	-1. 8252E-02
6. 1000E-01	4. 1298E+01	-1. 0842E+02	7. 4332E+02	7. 6403E-03	-1. 132E-11	6. 945E-02	-1. 6588E-02
6. 2000E-01	4. 1260E+01	-1. 1018E+02	7. 4272E+02	7. 6340E-03	-1. 132E-11	6. 406E-02	-1. 5000E-02
6. 3000E-01	4. 1224E+01	-1. 1137E+02	7. 4212E+02	7. 6277E-03	-1. 162E-11	5. 6699E-02	-1. 3543E-02
6. 4000E-01	4. 1188E+01	-1. 1187E+02	7. 4151E+02	7. 6212E-03	-1. 162E-11	5. 2804E-02	-1. 2856E-02
6. 5000E-01	4. 1152E+01	-1. 1172E+02	7. 4089E+02	7. 6148E-03	-1. 167E-11	4. 9158E-02	-1. 256E-02
6. 6000E-01	4. 1115E+01	-1. 1101E+02	7. 4028E+02	7. 6083E-03	-1. 1660E-11	4. 5700E-02	-1. 2196E-02
6. 7000E-01	4. 1079E+01	-1. 0877E+02	7. 3966E+02	7. 5953E-03	-1. 159E-11	4. 2428E-02	-1. 1561E-02
6. 8000E-01	4. 1044E+01	-1. 0807E+02	7. 3905E+02	7. 588E-03	-1. 137E-11	3. 9331E-02	-1. 0952E-02
6. 9000E-01	4. 1008E+01	-1. 0595E+02	7. 3844E+02	7. 588E-03	-1. 0891E-11	3. 6403E-02	-1. 0368E-02
7. 0000E-01	4. 0973E+01	-1. 0345E+02	7. 3783E+02	7. 5825E-03	-1. 0470E-11	3. 3635E-02	-9. 8073E-03
7. 1000E-01	4. 0937E+01	-1. 0062E+02	7. 3664E+02	7. 5695E-03	-1. 0060E-11	3. 1022E-02	-9. 2708E-03
7. 2000E-01	4. 0905E+01	-9. 7489E+01	7. 3566E+02	7. 5637E-03	-9. 1149E-12	2. 8556E-02	-8. 7571E-03
7. 3000E-01	4. 0871E+01	-9. 4100E+01	7. 3486E+02	7. 5576E-03	-8. 5909E-12	2. 6232E-02	-8. 2657E-03
7. 4000E-01	4. 0839E+01	-8. 0487E+01	7. 3425E+02	7. 5516E-03	-8. 0382E-12	2. 4041E-02	-7. 9601E-03
7. 5000E-01	4. 0806E+01	-6. 6677E+01	7. 3366E+02	7. 5457E-03	-7. 4609E-12	2. 1980E-02	-7. 7347E-03
7. 6000E-01	4. 0775E+01	-5. 2706E+01	7. 3307E+02	7. 5399E-03	-6. 8632E-12	2. 0040E-02	-6. 9187E-03
7. 7000E-01	4. 0744E+01	-4. 384E+01	7. 3247E+02	7. 5343E-03	-6. 2480E-12	1. 8218E-02	-6. 5098E-03
7. 8000E-01	4. 0685E+01	-3. 0041E+01	7. 3176E+02	7. 5288E-03	-5. 6202E-12	1. 6507E-02	-6. 1201E-03
7. 9000E-01	4. 0656E+01	-2. 5646E+01	7. 3116E+02	7. 5181E-03	-4. 9007E-12	1. 4907E-02	-5. 7487E-03
8. 0000E-01	4. 0629E+01	-2. 1193E+01	7. 3051E+02	7. 5130E-03	-4. 3336E-12	1. 3397E-02	-5. 3850E-03
8. 1000E-01	4. 0602E+01	-1. 6192E+01	7. 3081E+02	7. 5080E-03	-3. 6811E-12	1. 1988E-02	-5. 0258E-03
8. 2000E-01	4. 0576E+01	-1. 0576E+01	7. 3036E+02	7. 5032E-03	-3. 0258E-12	9. 4393E-03	-4. 7383E-03
8. 3000E-01	4. 0550E+01	-4. 7694E+01	7. 2991E+02	7. 4985E-03	-2. 3694E-12	8. 2901E-03	-4. 47383E-03
8. 4000E-01	4. 0525E+01	-4. 3185E+01	7. 2949E+02	7. 4939E-03	-1. 7126E-12	8. 2901E-03	-4. 217383E-03

8.7000E-01	4.0502E+01	7.2907E+02	7.4895E-03	-1.0587E-12	7.2187E-03	-4.4340E-03
8.8000E-01	4.0479E+01	7.2887E+02	7.4852E-03	-4.0923E-13	6.3208E-03	-4.1452E-03
8.9000E-01	4.0456E+01	7.2867E+02	7.4810E-03	-2.3470E-13	5.2928E-03	-3.8709E-03
8.0000E-01	4.0435E+01	7.2790E+02	7.4770E-03	8.7175E-13	4.4308E-03	-3.6108E-03
8.1000E-01	4.0414E+01	7.2754E+02	7.4731E-03	1.5004E-12	3.6312E-03	-3.3643E-03
8.2000E-01	4.0394E+01	7.2719E+02	7.4694E-03	2.1199E-12	2.8905E-03	-3.1309E-03
8.3000E-01	4.0374E+01	7.2685E+02	7.4658E-03	2.7294E-12	2.2055E-03	-2.9099E-03
8.4000E-01	4.0356E+01	7.2652E+02	7.4623E-03	3.3284E-12	1.5729E-03	-2.7009E-03
8.5000E-01	4.0338E+01	7.2621E+02	7.4590E-03	3.9160E-12	9.8985E-04	-2.5033E-03
8.6000E-01	4.0321E+01	7.2591E+02	7.4558E-03	4.4911E-12	4.5347E-04	-2.3167E-03
8.7000E-01	4.0304E+01	7.2562E+02	7.4527E-03	5.0546E-12	-3.8922E-05	-2.1406E-03
8.8000E-01	4.0288E+01	7.2534E+02	7.4497E-03	5.6051E-12	-4.9013E-04	-1.9745E-03
8.9000E-01	4.0273E+01	7.2507E+02	7.4468E-03	6.1413E-12	-9.0253E-04	-1.8181E-03
1.0000E+00	4.0258E+01	7.2481E+02	7.4441E-03	6.6644E-12	-1.2785E-03	-1.6708E-03
8.0000E-01	-3.8690E+01	7.2907E+02	7.4895E-03	-1.0587E-12	7.2187E-03	-4.4340E-03
8.1000E-01	-3.4229E+01	7.2887E+02	7.4852E-03	-4.0923E-13	6.3208E-03	-4.1452E-03
8.2000E-01	-2.9803E+01	7.2867E+02	7.4810E-03	-2.3470E-13	5.2928E-03	-3.8709E-03
8.3000E-01	-2.5430E+01	7.2790E+02	7.4770E-03	8.7175E-13	4.4308E-03	-3.6108E-03
8.4000E-01	-2.1112E+01	7.2754E+02	7.4731E-03	1.5004E-12	3.6312E-03	-3.3643E-03
8.5000E-01	-1.6859E+01	7.2719E+02	7.4694E-03	2.1199E-12	2.8905E-03	-3.1309E-03
8.6000E-01	-1.2689E+01	7.2685E+02	7.4658E-03	2.7294E-12	2.2055E-03	-2.9099E-03
8.7000E-01	-8.5234E+00	7.2652E+02	7.4623E-03	3.3284E-12	1.5729E-03	-2.7009E-03
8.8000E-01	-4.5703E-01	7.2621E+02	7.4590E-03	3.9160E-12	9.8985E-04	-2.5033E-03
8.9000E-01	3.2900E+00	7.2591E+02	7.4558E-03	4.4911E-12	4.5347E-04	-2.3167E-03
9.0000E-01	7.0732E+00	7.2562E+02	7.4527E-03	5.0546E-12	-3.8922E-05	-2.1406E-03
9.1000E-01	1.0753E+01	7.2534E+02	7.4497E-03	5.6051E-12	-4.9013E-04	-1.9745E-03
9.2000E-01	1.4346E+01	7.2507E+02	7.4468E-03	6.1413E-12	-9.0253E-04	-1.8181E-03
9.3000E-01	1.8258E+01	7.2481E+02	7.4441E-03	6.6644E-12	-1.2785E-03	-1.6708E-03

1 TRANSITION MATRIX AND TIME RESPONSE

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A MATRIX.

0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00
5.6065E+10	2.3360E+05
9.1327E+04	3.8053E-01
1.7170E-02	7.1542E-08
1.7821E+08	7.4265E+00
1.7821E+08	7.4255E+00
-7.4000E+00	0.0000E+00
0.0000E+00	0.0000E+00

INITIAL CONDITIONS.

0.0000E+00	5.0000E+00
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TRANSITION MATRIX.

7.7859E+04	3.3303E-01
7.3110E+08	3.1740E+03
1.8019E+07	8.3450E+01
2.0807E+02	9.4712E-04
1.0599E-04	4.6100E-10
1.2877E+04	5.5870E-02
1.0934E+04	4.7555E-02
9.2918E-01	2.1509E-09
0.0000E+00	1.0000E+00

TIME RESPONSE.

TIME	8 VARIABLE	9 VARIABLE
1.0000E-02	1.0755E-08	5.0000E+00
2.0000E-02	6.8492E-08	5.0000E+00
3.0000E-02	1.8574E-07	5.0000E+00
4.0000E-02	3.5881E-07	5.0000E+00
5.0000E-02	5.8255E-07	5.0000E+00
6.0000E-02	8.4455E-07	5.0000E+00
7.0000E-02	1.1368E-06	5.0000E+00
8.0000E-02	1.4514E-06	5.0000E+00
9.0000E-02	1.7817E-06	5.0000E+00
1.0000E-01	2.1220E-06	5.0000E+00
1.1000E-01	2.4678E-06	5.0000E+00
1.2000E-01	2.8154E-06	5.0000E+00
1.3000E-01	3.1616E-06	5.0000E+00
1.4000E-01	3.5042E-06	5.0000E+00
1.5000E-01	3.8412E-06	5.0000E+00
1.6000E-01	4.1709E-06	5.0000E+00
1.7000E-01	4.4923E-06	5.0000E+00
1.8000E-01	4.8043E-06	5.0000E+00
1.9000E-01	5.1064E-06	5.0000E+00
2.0000E-01	5.3979E-06	5.0000E+00
2.1000E-01	5.6786E-06	5.0000E+00
2.2000E-01	5.9485E-06	5.0000E+00

2.3000E-01	6.2058E-06	5.0000E+00
2.4000E-01	6.4531E-06	5.0000E+00
2.5000E-01	6.6903E-06	5.0000E+00
2.6000E-01	6.9186E-06	5.0000E+00
2.7000E-01	7.1301E-06	5.0000E+00
2.8000E-01	7.3341E-06	5.0000E+00
2.9000E-01	7.5278E-06	5.0000E+00
3.0000E-01	7.7114E-06	5.0000E+00
3.1000E-01	7.8854E-06	5.0000E+00
3.2000E-01	8.0499E-06	5.0000E+00
3.3000E-01	8.2054E-06	5.0000E+00
3.4000E-01	8.3521E-06	5.0000E+00
3.5000E-01	8.4904E-06	5.0000E+00
3.6000E-01	8.6206E-06	5.0000E+00
3.7000E-01	8.7431E-06	5.0000E+00
3.8000E-01	8.8581E-06	5.0000E+00
3.9000E-01	8.9661E-06	5.0000E+00
4.0000E-01	9.0673E-06	5.0000E+00
4.1000E-01	9.1620E-06	5.0000E+00
4.2000E-01	9.2505E-06	5.0000E+00
4.3000E-01	9.3333E-06	5.0000E+00
4.4000E-01	9.4104E-06	5.0000E+00
4.5000E-01	9.4822E-06	5.0000E+00
4.6000E-01	9.5491E-06	5.0000E+00
4.7000E-01	9.6111E-06	5.0000E+00
4.8000E-01	9.6687E-06	5.0000E+00
4.9000E-01	9.7220E-06	5.0000E+00
5.0000E-01	9.7712E-06	5.0000E+00
5.1000E-01	9.8162E-06	5.0000E+00
5.2000E-01	9.8566E-06	5.0000E+00
5.3000E-01	9.8971E-06	5.0000E+00
5.4000E-01	9.9324E-06	5.0000E+00
5.5000E-01	9.9642E-06	5.0000E+00
5.6000E-01	9.9944E-06	5.0000E+00
5.7000E-01	1.0021E-05	5.0000E+00
5.8000E-01	1.0045E-05	5.0000E+00
5.9000E-01	1.0067E-05	5.0000E+00
6.0000E-01	1.0087E-05	5.0000E+00
6.1000E-01	1.0105E-05	5.0000E+00
6.2000E-01	1.0121E-05	5.0000E+00
6.3000E-01	1.0135E-05	5.0000E+00
6.4000E-01	1.0148E-05	5.0000E+00
6.5000E-01	1.0159E-05	5.0000E+00
6.6000E-01	1.0168E-05	5.0000E+00
6.7000E-01	1.0176E-05	5.0000E+00
6.8000E-01	1.0183E-05	5.0000E+00
6.9000E-01	1.0189E-05	5.0000E+00
7.0000E-01	1.0194E-05	5.0000E+00
7.1000E-01	1.0198E-05	5.0000E+00
7.2000E-01	1.0201E-05	5.0000E+00
7.3000E-01	1.0203E-05	5.0000E+00
7.4000E-01	1.0204E-05	5.0000E+00
7.5000E-01	1.0205E-05	5.0000E+00
7.6000E-01	1.0205E-05	5.0000E+00
7.7000E-01	1.0204E-05	5.0000E+00
7.8000E-01	1.0203E-05	5.0000E+00
7.9000E-01	1.0202E-05	5.0000E+00
8.0000E-01	1.0200E-05	5.0000E+00
8.1000E-01	1.0198E-05	5.0000E+00
8.2000E-01	1.0195E-05	5.0000E+00
8.3000E-01	1.0192E-05	5.0000E+00
8.4000E-01	1.0189E-05	5.0000E+00
8.5000E-01	1.0185E-05	5.0000E+00
8.6000E-01	1.0182E-05	5.0000E+00
8.7000E-01	1.0178E-05	5.0000E+00
8.8000E-01	1.0174E-05	5.0000E+00

8.9000E-01	1.0170E-05	5.0000E+00
9.0000E-01	1.0166E-05	5.0000E+00
9.1000E-01	1.0161E-05	5.0000E+00
9.2000E-01	1.0157E-05	5.0000E+00
9.3000E-01	1.0153E-05	5.0000E+00
9.4000E-01	1.0148E-05	5.0000E+00
9.5000E-01	1.0144E-05	5.0000E+00
9.6000E-01	1.0140E-05	5.0000E+00
9.7000E-01	1.0135E-05	5.0000E+00
9.8000E-01	1.0131E-05	5.0000E+00
9.9000E-01	1.0126E-05	5.0000E+00
1.0000E+00	1.0122E-05	5.0000E+00



```

1      !      Appendix #8.
2      !
3      !*****
4      !
10     !      PROGRAM RICCATI
20     !
30     !*****
40     !
50     ! FUNCTION : THIS PROGRAM SOLVES THE RICCATI EQUATION BY THE
60     !          EULER METHOD.
70     ! AUTHOR : LEONARDO KOPELOFF. MAY.29.84.
80     ! REFERENCES : OPTIMAL CONTROL THEORY.D.E.KIRK.
90     ! LANGUAGE : BASIC
100    ! INPUTS : A , B , H , Q ,AND R  MATRIXES , TIME INTERVAL ,
110    !          TIME INCREMENT.
120    ! OUTPUTS : K MATRIX FOR DIFFERENT TIMES.
130    ! LINKING : NO SUBROUTINE USED.
140    !
150    !*****
160    !
170    ! OPEN OUTPUT FILE.
180    !
190    !*****
200    !
210    OPEN "SPARKY.DAT" FOR OUTPUT AS FILE #1
220    !
230    !*****
240    !
250    ! MATRIX DIMENSION.
260    !
270    !*****
280    !
290    DIM K(3,3) , H(3,3) , Q(3,3) , R(1,1),A(3,3) ,B(3,3),KD(3,3)
295    DIM RI(1,1) , BT(3,3) , AT(3,3) , KB(3,3) ,E(3,3) , EA(3,3)
300    DIM KEK(3,3) ,EB(3,3) ,KA(3,3) , ATK(3,3) ,EC(3,3) , INC(3,3)
301    DIM BTT(1,3) ,FDK(1,3),BTK(1,3)
305    !
310    !*****
320    !
330    ! PRINT INPUTS.
340    !
350    !*****
360    !
370    PRINT#1,"TYPICAL SYSTEM. RICCATI EQUATION."
380    PRINT#1
385    READ MORD
390    READ TI,TF
400    PRINT#1,"TIME INTERVAL :"; TI ;"TO :";TF
410    PRINT#1
420    MAT READ A
430    PRINT#1,"A MATRIX."
440    MAT PRINT#1, A,
450    PRINT#1
460    MAT READ B
470    PRINT#1,"B MATRIX."
480    MAT PRINT#1, B,
490    PRINT#1
500    MAT READ H
510    PRINT#1,"H MATRIX."

```

```

520  MAT PRINT#1, H,
530  PRINT#1
540  MAT READ Q
550  PRINT#1,"Q MATRIX."
560  MAT PRINT#1, Q,
570  PRINT#1
580  MAT READ R
590  PRINT#1,"R MATRIX."
600  MAT PRINT#1, R,
610  PRINT#1
620  READ DLT
630  PRINT#1,"DELTA T :";DLT
640  PRINT#1
650  READ DLP
660  PRINT#1,"PRINTING INTERVAL :";DLP
670  PRINT#1
680  PRINT#1
690  PRINT#1,"K MATRIX AND FEEDBACK MATRIX AS A FUNCTION OF TIME"
700  PRINT#1
710  !
800  !*****
810  !
820  ! SOLVE THE PROBLEM
830  !
840  !*****
850  !
860  ! INITIAL CONDITION.
870  !
880  T = TF
890  M = (TF - TI)/DLT
900  MAT K=H
910  !
915  ! CALCULATE THE DERIVATIVE OF K.(KD)
920  ! IF SOME MATRICES ARE TIME INVARIANT , THE RELATED
930  ! OPERATIONS CAN BE DONE OUT OF THE TIME LOOP.
940  !
950  MAT AT=TRN(A)
960  MAT BT=TRN(B)
961  FOR J=1 TO 3
962     BTT(1,J)=BT(1,J)
963  NEXT J
970  MAT RI=INV(R)
980  !
990  ! THIS PART OF THE CALCULATION CHANGES WITH EACH DECREMENT
1000 ! OF TIME.
1005 !
1010 FOR J=1 TO M
1020   MAT KB=K*B
1030   RIN = RI(1,1)
1040   MAT E=(RIN)*KB
1050   MAT EA=E*BT
1060   MAT KEK=EA*K
1070   MAT KA=K*A
1080   MAT ATK=AT*K
1090   MAT EB=KEK-Q
1100   MAT EC=EB-KA
1110   MAT KD=EC-ATK
1120   !
1130   ! SOLVE THE DIFFERENCE EQUATION.
1140   !

```

```

1150     MAT INC=(DLT)*KD
1160     MAT K=K-INC
1161     MAT BTTK=BTT*K
1162     NRIN= -RIN
1163     MAT FDK=(NRIN)*BTTK
1170     T=TF-J*DLT
1700     !
1710     !*****
1720     !
1730     ! PRINTING THE OUTPUT DATA.
1740     !
1750     !*****
1760     !
1761     PN = T/DLP
1762     IPN = INT(PN)
1763     DDPN = PN - IPN
1764     DIPN = ABS(DDPN)
1766     IF DIPN > 0.001 AND (1-DIPN)>0.001 THEN 1800
1770     PRINT#1,"AT TIME :";
1771     PRINT#1 USING "  #.###^0000",T;
1772     PRINT#1,"  THE K MATRIX IS :";
1780     MAT PRINT#1, K,
1790     PRINT#1
1791     PRINT#1,"AND THE FEEDBACK MATRIX IS :";
1792     FOR I=1 TO MORD
1793     PRINT#1 USING "  #.###^0000", FDK(1,I);
1794     NEXT I
1795     PRINT#1
1796     PRINT#1
1800     NEXT J
1810     !
2000     !*****
2010     !
2020     !          DATA
2030     !
2040     !*****
2050     !
2050     !
2050     ! MATRICES ORDER
2050     !
2050     DATA 3
2060     !
2060     ! TIME INTERVAL
2070     !
2080     DATA 0,0.505
2090     !
2100     ! A MATRIX
2110     !
2120     DATA 0, 1.776E-02, 0
2125     DATA -5.874E04, -27.8, 3356.6
2130     DATA 0, 0, -2200
2140     !
2150     ! B MATRIX
2160     !
2170     DATA 0, 0, 0
2175     DATA 0, 0, 0
2180     DATA 1, 0, 0
2190     !
2200     ! H MATRIX
2210     !

```

```
2220 DATA 1000, 0, 0
2225 DATA 0, 0, 0
2230 DATA 0, 0, 0
2240 !
2250 ! Q MATRIX
2260 !
2270 DATA 1000, 0, 0
2280 DATA 0, 1, 0
2285 DATA 0, 0, 10
2290 !
2300 ! R MATRIX
2310 !
2320 DATA 0.005
2330 !
2340 ! DELTA T
2350 !
2360 DATA 0.0002
2370 !
2380 !
2390 ! PRINTING INTERVAL
2400 !
2410 DATA 0.005
2420 !
2430 END
```

Appendix #9.

TRANSITION MATRIX AND TIME RESPONSE

.....

A MATRIX.

0.0000E+00 1.7760E-02 0.0000E+00  
 -5.8740E+04 -2.7800E+01 3.3566E+03  
 0.0000E+00 0.0000E+00 -2.2000E+03

INITIAL CONDITIONS.

4.0000E+01 0.0000E+00 0.0000E+00

.....

TRANSITION MATRIX.

9.8757E-01 8.2545E-05 1.1522E-04  
 -2.7301E+02 8.5838E-01 1.3307E+00  
 0.0000E+00 0.0000E+00 6.4332E-04

.....

TIME RESPONSE.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE
5.0000E-03	3.9503E+01	-1.0920E+04	0.0000E+00
1.0000E-02	3.8110E+01	-2.0158E+04	0.0000E+00
1.5000E-02	3.5973E+01	-2.7708E+04	0.0000E+00
2.0000E-02	3.3238E+01	-3.3604E+04	0.0000E+00
2.5000E-02	3.0051E+01	-3.7919E+04	0.0000E+00
3.0000E-02	2.6548E+01	-4.0753E+04	0.0000E+00
3.5000E-02	2.2854E+01	-4.2228E+04	0.0000E+00
4.0000E-02	1.9084E+01	-4.2487E+04	0.0000E+00
4.5000E-02	1.5340E+01	-4.1679E+04	0.0000E+00
5.0000E-02	1.1709E+01	-3.9864E+04	0.0000E+00
5.5000E-02	8.2645E+00	-3.7500E+04	0.0000E+00
6.0000E-02	5.0663E+00	-3.4445E+04	0.0000E+00
6.5000E-02	2.1601E+00	-3.0948E+04	0.0000E+00
7.0000E-02	-4.2145E-01	-2.7153E+04	0.0000E+00
7.5000E-02	-2.6577E-01	-2.3194E+04	0.0000E+00
8.0000E-02	-4.5933E-01	-1.9183E+04	0.0000E+00
8.5000E-02	-6.0863E-01	-1.5227E+04	0.0000E+00
9.0000E-02	-7.2478E-01	-1.1414E+04	0.0000E+00
9.5000E-02	-8.0899E-01	-7.8186E+03	0.0000E+00
1.0000E-01	-8.6446E-01	-4.4998E+03	0.0000E+00
1.0500E-01	-8.8086E-01	-1.5024E+03	0.0000E+00
1.1000E-01	-8.8219E+00	1.1425E+03	0.0000E+00
1.1500E-01	-8.3263E+00	3.4165E+03	0.0000E+00
1.2000E-01	-7.7843E+00	6.8331E+03	0.0000E+00
1.2500E-01	-7.1235E+00	7.9905E+03	0.0000E+00
1.3000E-01	-6.3754E+00	8.8035E+03	0.0000E+00
1.3500E-01	-5.5695E+00	9.2972E+03	0.0000E+00
1.4000E-01	-4.7328E+00	9.5009E+03	0.0000E+00
1.4500E-01	-3.8897E+00	9.4473E+03	0.0000E+00
1.5000E-01	-3.0816E+00	9.1711E+03	0.0000E+00
1.5500E-01	-2.2665E+00	8.7080E+03	0.0000E+00
1.6000E-01			

1.6500E-01	-1.5195E+00	8.0934E+03	0.0000E+00
1.7000E-01	-8.3258E-01	7.3619E+03	0.0000E+00
1.7500E-01	-2.1452E-01	6.5485E+03	0.0000E+00
1.8000E-01	3.2852E-01	5.6778E+03	0.0000E+00
1.8500E-01	7.9311E-01	4.7639E+03	0.0000E+00
1.9000E-01	1.1781E+00	3.8698E+03	0.0000E+00
1.9500E-01	1.4846E+00	3.0117E+03	0.0000E+00
2.0000E-01	1.7152E+00	2.1845E+03	0.0000E+00
2.0500E-01	1.8742E+00	1.4068E+03	0.0000E+00
2.1000E-01	1.9670E+00	6.9593E+02	0.0000E+00
2.1500E-01	2.0000E+00	6.0337E+01	0.0000E+00
2.2000E-01	1.9901E+00	-4.9424E+02	0.0000E+00
2.2500E-01	1.9147E+00	-9.6483E+02	0.0000E+00
2.3000E-01	1.8113E+00	-1.3509E+03	0.0000E+00
2.3500E-01	1.6773E+00	-1.6541E+03	0.0000E+00
2.4000E-01	1.5199E+00	-1.8777E+03	0.0000E+00
2.4500E-01	1.3460E+00	-2.0267E+03	0.0000E+00
2.5000E-01	1.1620E+00	-2.1071E+03	0.0000E+00
2.5500E-01	9.7359E-01	-2.1259E+03	0.0000E+00
2.6000E-01	7.8601E-01	-2.0906E+03	0.0000E+00
2.6500E-01	6.0367E-01	-2.0081E+03	0.0000E+00
2.7000E-01	4.3032E-01	-1.8883E+03	0.0000E+00
2.7500E-01	2.6903E-01	-1.7382E+03	0.0000E+00
2.8000E-01	1.2212E-01	-1.5663E+03	0.0000E+00
2.8500E-01	-8.6876E-03	-1.3778E+03	0.0000E+00
2.9000E-01	-1.2231E-01	-1.1603E+03	0.0000E+00
2.9500E-01	-2.1822E-01	-9.7871E+02	0.0000E+00
3.0000E-01	-2.9837E-01	-7.8071E+02	0.0000E+00
3.0500E-01	-3.8710E-01	-5.8578E+02	0.0000E+00
3.1000E-01	-4.8114E-01	-4.0673E+02	0.0000E+00
3.1500E-01	-4.3018E-01	-2.4125E+02	0.0000E+00
3.2000E-01	-4.473E-01	-8.9632E+01	0.0000E+00
3.2500E-01	-4.4662E-01	4.4895E+01	0.0000E+00
3.3000E-01	-4.3740E-01	1.6012E+02	0.0000E+00
3.3500E-01	-4.1874E-01	2.5685E+02	0.0000E+00
3.4000E-01	-3.9233E-01	3.3478E+02	0.0000E+00
3.4500E-01	-3.5982E-01	3.9449E+02	0.0000E+00
3.5000E-01	-3.2279E-01	4.3685E+02	0.0000E+00
3.5500E-01	-2.8272E-01	4.6310E+02	0.0000E+00
3.6000E-01	-2.4098E-01	4.7469E+02	0.0000E+00
3.6500E-01	-1.9880E-01	4.7324E+02	0.0000E+00
3.7000E-01	-1.5726E-01	4.6049E+02	0.0000E+00
3.7500E-01	-1.1730E-01	4.3820E+02	0.0000E+00
3.8000E-01	-7.9667E-02	4.0816E+02	0.0000E+00
3.8500E-01	-4.4986E-02	3.7210E+02	0.0000E+00
3.9000E-01	-1.3712E-02	3.3168E+02	0.0000E+00
3.9500E-01	1.3637E-02	2.8844E+02	0.0000E+00
4.0000E-01	3.2474E-02	2.4381E+02	0.0000E+00
4.0500E-01	5.7133E-02	1.9905E+02	0.0000E+00
4.1000E-01	7.2853E-02	1.5325E+02	0.0000E+00
4.1500E-01	8.4763E-02	1.1337E+02	0.0000E+00
4.2000E-01	9.3096E-02	7.4175E+01	0.0000E+00
4.2500E-01	8.6034E-02	3.8268E+01	0.0000E+00
4.3000E-01	8.9974E-02	6.0769E+00	0.0000E+00
4.3500E-01	8.8233E-02	-2.2078E+01	0.0000E+00
4.4000E-01	8.6177E-02	-8.6043E+01	0.0000E+00
4.4500E-01	8.1181E-02	-8.5779E+01	0.0000E+00
4.5000E-01	6.4618E-02	-8.1355E+01	0.0000E+00
4.5500E-01	7.6851E-02	-9.2834E+01	0.0000E+00
4.6000E-01	6.8224E-02	-1.0075E+02	0.0000E+00
4.6500E-01	5.9080E-02	-1.0511E+02	0.0000E+00
4.7000E-01	4.9649E-02	-1.0634E+02	0.0000E+00
4.7500E-01	4.0754E-02	-1.0484E+02	0.0000E+00
4.8000E-01	3.1100E-02	-1.0098E+02	0.0000E+00
4.8500E-01	2.2376E-02	-9.5186E+01	0.0000E+00
4.9000E-01	1.4245E-02	-8.7796E+01	0.0000E+00
4.9500E-01	6.8204E-03	-7.9250E+01	0.0000E+00
5.0000E-01	1.9399E-04	-6.9887E+01	0.0000E+00

```

Appendix #10.
TYPICAL SYSTEM, RICCATI EQUATION.
TIME INTERVAL : 0 TO : .505
A MATRIX.
0 .01776 0
-58740 -27.8 3358.8
0 0 -2200
B MATRIX.
0 0 0
0 0 0
1 0 0
H MATRIX.
1000 0 0
0 0 0
0 0 0
Q MATRIX.
1000 0 0
0 1 0
0 0 10
R MATRIX.
.0003
DELTA T : .0002
PRINTING INTERVAL : .025
K MATRIX AND FEEDBACK MATRIX AS A FUNCTION OF TIME
AT TIME : 5.0000E-01 THE K MATRIX IS :
1092.23 -.507399 -.776976
-.507399 .419468E-02 .577975E-02
-.776976 .577975E-02 .108593E-01
AND THE FEEDBACK MATRIX IS :
2.5898E+03 -.1927E+02 -.3553E+02
AT TIME : 4.7500E-01 THE K MATRIX IS :
7333.51 -3.75175 -5.65328
-3.75175 .781399E-02 .113966E-01
-5.65328 .113966E-01 .193707E-01
AND THE FEEDBACK MATRIX IS :
1.9511E+04 -.3799E+02 -.6499E+02
AT TIME : 4.5000E-01 THE K MATRIX IS :
14930.7 -2.82679 -4.52235
-2.82679 .794648E-02 .115893E-01
-4.52235 .115893E-01 .196571E-01
AND THE FEEDBACK MATRIX IS :
1.5075E+04 -.3863E+02 -.6552E+02
AT TIME : 4.2500E-01 THE K MATRIX IS :
20366.3 -1.66728 -2.80322
-1.66728 .819411E-02 .119564E-01
-2.80322 .119564E-01 .202015E-01

```

```

AND THE FEEDBACK MATRIX IS :
  9.3441E+03  -.3985E+02  -.6734E+02

AT TIME :  4.000E-01 THE K MATRIX IS :
  23678.5  -.910879  -1.67885
 -.910879  .836685E-02  .122132E-01
 -1.67885  .122132E-01  .205632E-01

AND THE FEEDBACK MATRIX IS :
  5.5962E+03  -.4071E+02  -.6861E+02

AT TIME :  3.7500E-01 THE K MATRIX IS :
  25539.4  -.48091  -.03944
 -.48091  .84662E-02  .012361
 -1.03944  .012361  .208029E-01

AND THE FEEDBACK MATRIX IS :
  3.4648E+03  -.4120E+02  -.6934E+02

AT TIME :  3.5000E-01 THE K MATRIX IS :
  26542  -.248774  -.694209
 -.248774  .851994E-02  .124409E-01
 -.694209  .124409E-01  .209218E-01

AND THE FEEDBACK MATRIX IS :
  2.3140E+03  -.4147E+02  -.6974E+02

AT TIME :  3.2500E-01 THE K MATRIX IS :
  27070.4  -.126373  -.512168
 -.126373  .85483E-02  .124831E-01
 -.512168  .124831E-01  .209845E-01

AND THE FEEDBACK MATRIX IS :
  1.7072E+03  -.4161E+02  -.6996E+02

AT TIME :  3.0000E-01 THE K MATRIX IS :
  27345.8  -.062581  -.417295
 -.625811E-01  .856307E-02  .012505
 -.417295  .012505  .210172E-01

AND THE FEEDBACK MATRIX IS :
  1.3910E+03  -.4168E+02  -.7006E+02

AT TIME :  2.7500E-01 THE K MATRIX IS :
  27489.4  -.295349E-01  -.368147
 -.295349E-01  .857073E-02  .125164E-01
 -.368147  .125164E-01  .210341E-01

AND THE FEEDBACK MATRIX IS :
  1.2272E+03  -.4172E+02  -.7011E+02

AT TIME :  2.5000E-01 THE K MATRIX IS :
  27562.1  -.124672E-01  -.342763
 -.124672E-01  .857468E-02  .125223E-01

```



```

-.342763      .125233E-01      .210428E-01
AND THE FEEDBACK MATRIX IS I
  1.1425E+03      -.4174E+02      -.7014E+02
AT TIME I      2.2500E-01      THE K MATRIX IS I
27600.1      -.366609E-02      -.329874
-.36681E-02      .857872E-02      .125233E-01
-.329874      .125233E-01      .210473E-01
AND THE FEEDBACK MATRIX IS I
  1.0989E+03      -.4175E+02      -.7016E+02
AT TIME I      2.0000E-01      THE K MATRIX IS I
27619.7      .868237E-03      -.32293
-.868228E-03      .857777E-02      .125269E-01
-.32293      .125269E-01      .210497E-01
AND THE FEEDBACK MATRIX IS I
  1.0764E+03      -.4176E+02      -.7017E+02
AT TIME I      1.7500E-01      THE K MATRIX IS I
27629.6      .320381E-02      -.319457
.320381E-02      .857831E-02      .125277E-01
-.319457      .125277E-01      .210509E-01
AND THE FEEDBACK MATRIX IS I
  1.0848E+03      -.4176E+02      -.7017E+02
AT TIME I      1.5000E-01      THE K MATRIX IS I
27635      .40808E-02      -.317685
.40807E-02      .857859E-02      .125281E-01
-.317685      .125281E-01      .210516E-01
AND THE FEEDBACK MATRIX IS I
  1.0589E+03      -.4176E+02      -.7017E+02
AT TIME I      1.2500E-01      THE K MATRIX IS I
27637.6      .50286E-02      -.318743
.502859E-02      .857873E-02      .125283E-01
-.318743      .125283E-01      .210518E-01
AND THE FEEDBACK MATRIX IS I
  1.0543E+03      -.4176E+02      -.7017E+02
AT TIME I      1.0000E-01      THE K MATRIX IS I
27639      .53426E-02      -.318276
.534259E-02      .857881E-02      .125284E-01
-.318276      .125284E-01      .21052
AND THE FEEDBACK MATRIX IS I
  1.0543E+03      -.4176E+02      -.7017E+02
AT TIME I      7.5000E-02      THE K MATRIX IS I
27639.7      .550975E-02      -.318027
.550974E-02      .857884E-02      .125285E-01
-.318027      .125285E-01      .21052
AND THE FEEDBACK MATRIX IS I
  1.0534E+03      -.4176E+02      -.7017E+02
AT TIME I      5.0000E-02      THE K MATRIX IS I
27640.1      .559486E-02      -.3159
.559484E-02      .857886E-02      .125285E-01
-.3159      .125285E-01      .210521E-01

```

```
AND THE FEEDBACK MATRIX IS :  
1.0530E+03  -.4176E+02  -.7017E+02  
AT TIME 1  2.5000E-02 THE K MATRIX IS :  
27640.3  .564227E-02  -.31583  
.564225E-02  .857887E-02  .125285E-01  
-.31583  .125285E-01  .210521E-01  
AND THE FEEDBACK MATRIX IS :  
1.0528E+03  -.4176E+02  -.7017E+02  
AT TIME 1  0.0000E+00 THE K MATRIX IS :  
27640.3  .565624E-02  -.315809  
.565624E-02  .857887E-02  .125285E-01  
-.315809  .125285E-01  .210521E-01  
AND THE FEEDBACK MATRIX IS :  
1.0527E+03  -.4176E+02  -.7017E+02
```

Appendix #11.

TRANSITION MATRIX AND TIME RESPONSE

.....

A MATRIX.

0.0000E+00 1.7760E-02 0.0000E+00  
 -5.8740E+04 -2.7800E+01 3.3566E+03  
 1.0527E+03 -4.1782E+01 -2.2702E+03

INITIAL CONDITIONS.

4.0000E+01 0.0000E+00 0.0000E+00

.....

TRANSITION MATRIX.

9.8876E-01 7.2758E-05 9.8834E-05  
 -2.3472E+02 6.4010E-01 9.8902E-01  
 4.4676E+00 -1.2278E-02 -1.8518E-02

.....

TIME RESPONSE.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE
5.0000E-03	3.9550E+01	-9.3890E+03	1.7870E+02
1.0000E-02	3.8440E+01	-1.5117E+04	2.8886E+02
1.5000E-02	3.6837E+01	-1.8414E+04	3.5199E+02
2.0000E-02	3.5217E+01	-2.0109E+04	3.8459E+02
2.5000E-02	3.3397E+01	-2.0758E+04	3.8711E+02
3.0000E-02	3.1551E+01	-2.0733E+04	3.8671E+02
3.5000E-02	2.9727E+01	-2.0285E+04	3.8817E+02
4.0000E-02	2.7956E+01	-1.9578E+04	3.7466E+02
4.5000E-02	2.6254E+01	-1.8723E+04	3.5834E+02
5.0000E-02	2.4633E+01	-1.7793E+04	3.4054E+02
5.5000E-02	2.3095E+01	-1.6834E+04	3.2221E+02
6.0000E-02	2.1643E+01	-1.5878E+04	3.0381E+02
6.5000E-02	2.0275E+01	-1.4943E+04	2.8602E+02
7.0000E-02	1.8988E+01	-1.4041E+04	2.6876E+02
7.5000E-02	1.7780E+01	-1.3179E+04	2.5225E+02
8.0000E-02	1.6646E+01	-1.2360E+04	2.3657E+02
8.5000E-02	1.5583E+01	-1.1585E+04	2.2174E+02
9.0000E-02	1.4587E+01	-1.0854E+04	2.0775E+02
9.5000E-02	1.3654E+01	-1.0166E+04	1.9459E+02
1.0000E-01	1.2781E+01	-9.5200E+03	1.8222E+02
1.0500E-01	1.1962E+01	-8.9135E+03	1.7081E+02
1.1000E-01	1.1197E+01	-8.3447E+03	1.5972E+02
1.1500E-01	1.0479E+01	-7.8116E+03	1.4952E+02
1.2000E-01	9.8082E+00	-7.3121E+03	1.3996E+02
1.2500E-01	9.1799E+00	-6.8443E+03	1.3101E+02
1.3000E-01	8.5919E+00	-6.4062E+03	1.2262E+02
1.3500E-01	8.0413E+00	-5.9961E+03	1.1477E+02
1.4000E-01	7.5261E+00	-5.6121E+03	1.0742E+02
1.4500E-01	7.0439E+00	-5.2426E+03	1.0054E+02
1.5000E-01	6.5926E+00	-4.8916E+03	9.4100E+01
1.5500E-01	6.1701E+00	-4.6012E+03	8.8072E+01
1.6000E-01	5.7748E+00	-4.3064E+03	8.2429E+01

1.6500E-01	5.4048E+00	-4.0305E+03	7.7148E+01
1.7000E-01	5.0585E+00	-3.7733E+03	7.2205E+01
1.7500E-01	4.7343E+00	-3.5306E+03	6.7579E+01
1.8000E-01	4.4310E+00	-3.3044E+03	6.3249E+01
1.8500E-01	4.1471E+00	-3.0928E+03	5.9196E+01
1.9000E-01	3.8813E+00	-2.8945E+03	5.5403E+01
1.9500E-01	3.6376E+00	-2.7090E+03	5.1853E+01
2.0000E-01	3.3995E+00	-2.5354E+03	4.8530E+01
2.0500E-01	3.1670E+00	-2.3730E+03	4.5421E+01
2.1000E-01	2.9781E+00	-2.2209E+03	4.2510E+01
2.1500E-01	2.7873E+00	-2.0786E+03	3.9786E+01
2.2000E-01	2.6087E+00	-1.9454E+03	3.7237E+01
2.2500E-01	2.4415E+00	-1.8208E+03	3.4851E+01
2.3000E-01	2.2851E+00	-1.7041E+03	3.2618E+01
2.3500E-01	2.1387E+00	-1.5949E+03	3.0528E+01
2.4000E-01	2.0016E+00	-1.4927E+03	2.8572E+01
2.4500E-01	1.8734E+00	-1.3971E+03	2.6741E+01
2.5000E-01	1.7533E+00	-1.3075E+03	2.5028E+01
2.5500E-01	1.6410E+00	-1.2238E+03	2.3424E+01
2.6000E-01	1.5358E+00	-1.1453E+03	2.1932E+01
2.6500E-01	1.4374E+00	-1.0720E+03	2.0518E+01
2.7000E-01	1.3453E+00	-1.0033E+03	1.9203E+01
2.7500E-01	1.2581E+00	-9.3895E+02	1.7973E+01
2.8000E-01	1.1784E+00	-8.7881E+02	1.6821E+01
2.8500E-01	1.1029E+00	-8.2250E+02	1.5743E+01
2.9000E-01	1.0323E+00	-7.6980E+02	1.4735E+01
2.9500E-01	9.6611E-01	-7.2047E+02	1.3791E+01
3.0000E-01	9.0420E-01	-6.7431E+02	1.2880E+01
3.0500E-01	8.4627E-01	-6.3110E+02	1.2080E+01
3.1000E-01	7.9204E-01	-5.9066E+02	1.1306E+01
3.1500E-01	7.4129E-01	-5.5281E+02	1.0581E+01
3.2000E-01	6.9378E-01	-5.1739E+02	9.9033E+00
3.2500E-01	6.4933E-01	-4.8424E+02	9.2688E+00
3.3000E-01	6.0773E-01	-4.5321E+02	8.6749E+00
3.3500E-01	5.6879E-01	-4.2417E+02	8.1190E+00
3.4000E-01	5.3234E-01	-3.9699E+02	7.5988E+00
3.4500E-01	4.9823E-01	-3.7155E+02	7.1119E+00
3.5000E-01	4.6630E-01	-3.4774E+02	6.6562E+00
3.5500E-01	4.3643E-01	-3.2546E+02	6.2297E+00
3.6000E-01	4.0846E-01	-3.0481E+02	5.8305E+00
3.6500E-01	3.8229E-01	-2.8509E+02	5.4569E+00
3.7000E-01	3.5779E-01	-2.6682E+02	5.1072E+00
3.7500E-01	3.3487E-01	-2.4973E+02	4.7802E+00
3.8000E-01	3.1341E-01	-2.3372E+02	4.4737E+00
3.8500E-01	2.9333E-01	-2.1875E+02	4.1870E+00
3.9000E-01	2.7453E-01	-2.0473E+02	3.9187E+00
3.9500E-01	2.5694E-01	-1.9161E+02	3.6676E+00
4.0000E-01	2.4048E-01	-1.7933E+02	3.4326E+00
4.0500E-01	2.2507E-01	-1.6784E+02	3.2127E+00
4.1000E-01	2.1065E-01	-1.5709E+02	3.0088E+00
4.1500E-01	1.9715E-01	-1.4702E+02	2.8142E+00
4.2000E-01	1.8452E-01	-1.3760E+02	2.6338E+00
4.2500E-01	1.7266E-01	-1.2878E+02	2.4651E+00
4.3000E-01	1.6155E-01	-1.2053E+02	2.3071E+00
4.3500E-01	1.5127E-01	-1.1281E+02	2.1593E+00
4.4000E-01	1.4198E-01	-1.0558E+02	2.0209E+00
4.4500E-01	1.3251E-01	-9.8816E+01	1.8914E+00
4.5000E-01	1.2402E-01	-9.2484E+01	1.7702E+00
4.5500E-01	1.1607E-01	-8.6558E+01	1.6568E+00
4.6000E-01	1.0863E-01	-8.1012E+01	1.5506E+00
4.6500E-01	1.0167E-01	-7.5821E+01	1.4513E+00
4.7000E-01	9.5156E-02	-7.0982E+01	1.3583E+00
4.7500E-01	8.9059E-02	-6.6415E+01	1.2713E+00
4.8000E-01	8.3352E-02	-6.2160E+01	1.1898E+00
4.8500E-01	7.8011E-02	-5.8177E+01	1.1136E+00
4.9000E-01	7.3013E-02	-5.4445E+01	1.0422E+00
4.9500E-01	6.8344E-02	-5.0960E+01	9.7642E-01
5.0000E-01	6.3956E-02	-4.7695E+01	9.1292E-01

```

C      Appendix #12.
C
C      PROGRAM INT3
C
C-----
C      FUNCTION : This program will perform an iterative calculation
C                 of a certain network.
C                 It utilizes the INTI subroutine to solve integrator cells,
C                 algebraic expressions to solve other nodes, and iterations
C                 for long path feedbacks.
C
C      Author : Leonardo Kopeloff.  Jan.85
C
C      Language : Fortran-77
C
C      Inputs : Interval, interval quantity, number of state variables,
C              number of coefficients and initial conditions.
C
C      Outputs : State vector time response.
C
C      Linking :Link with INTI subroutine .
C-----
C      VARIABLE DECLARATION.
C-----
C
C      INTEGER XI,KI,Z(28),XI1,XI2,XI3,FLAG,PTC/0/,MXIT,C,I,PTCD
C      INTEGER XX,XY,KX,KY
C
C      DOUBLE PRECISION X(28,3),K(40),DLT,FTIM,T/0.0/
C
C      COMMON X,K,DLT,FLAG
C-----
C
C      OPEN THE OUTPUT FILE.
C-----
C
C      OPEN (UNIT=10,STATUS='NEW',NAME='SP1.DAT')
C      OPEN (UNIT=11,STATUS='NEW',NAME='SP2.DAT')
C      OPEN (UNIT=12,STATUS='NEW',NAME='SP3.DAT')
C      OPEN (UNIT=13,STATUS='NEW',NAME='SP4.DAT')
C
C-----
C
C      READ AND PRINT INPUT DATA.
C-----
C
C      50  FORMAT('1',5X,'ITERATIVE METHOD. TIME RESPONSE',/)
C      60  FORMAT(/,70('*'),/)

```

```

70   FORMAT(1P8E13.4)
80   FORMAT(5X,'COEFFICIENTS VALUES.',//)
90   FORMAT(5X,'TIME          ',7(I2,' VARIABLE  '))
    PRINT *, 'ENTER NUMBER OF VARIABLES.'
    READ *, XI
    PRINT *, 'ENTER NUMBER OF COEFFICIENTS.'
    READ *, KI
    PRINT *, 'ENTER VARIABLES INITIAL VALUES.'
    DO I=1,XI
        READ *, X(I,1)
        X(I,2)=X(I,1)
        X(I,3)=0.0
    END DO
    PRINT *, 'ENTER COEFFICIENTS VALUES.'
    DO I=1,KI
        READ *, K(I)
    END DO
    PRINT *, 'ENTER INCREMENT OF TIME AND FINAL TIME.'
    READ *, DLT,FTIM
    PRINT *, 'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
    READ *, PTCD,MXIT
C
    DO I=1,XI
        Z(I)=I
    END DO
C
C*****
C
C   WRITE TITLE AND INITIAL CONDITIONS.
C*****
C
    IF (XI.GT.21) THEN
        WRITE(13,50)
        WRITE(13,60)
        WRITE(13,80)
        WRITE(13,70),(K(I),I=1,KI)
        WRITE(13,60)
        WRITE(13,90),(Z(I),I=22,XI)
        WRITE(13,70),T,(X(I,1),I=22,XI)
        XI1=21
    ELSE
        XI1=XI
    ENDIF
    IF (XI1.GT.14) THEN
        WRITE(12,50)
        WRITE(12,60)
        WRITE(12,80)
        WRITE(12,70),(K(I),I=1,KI)
        WRITE(12,60)
        WRITE(12,90),(Z(I),I=15,XI1)
        WRITE(12,70),T,(X(I,1),I=15,XI1)
        XI2=14
    ELSE
        XI2=XI
    ENDIF
    IF (XI2.GT.7) THEN
        WRITE(11,50)
        WRITE(11,60)
        WRITE(11,80)

```

```

WRITE(11,70),(K(I),I=1,KI)
WRITE(11,60)
WRITE(11,90),(Z(I),I=8,XI2)
WRITE(11,70),T,(X(I,1),I=8,XI2)
XI3=7
ELSE
  XI3=XI
ENDIF
WRITE(10,50)
WRITE(10,60)
WRITE(10,80)
WRITE(10,70),(K(I),I=1,KI)
WRITE(10,60)
WRITE(10,90),(Z(I),I=1,XI3)
WRITE(10,70),T,(X(I,1),I=1,XI3)
C
PRINT *, 'HERE'
C-----
C
C   TIME LOOP.
C-----
C
DO WHILE (T.LE.FTIM)
  C=0
  FLAG=0
C-----
C
C *****
C
C   ITERATION LOOP.
C *****
C
DO WHILE ((FLAG.LT.1).AND.(C.LE.MXIT))
  C=C+1
  FLAG=1
  X(2,2)=X(1,2)*K(1)-X(16,2)*K(24)+X(17,2)*K(26)
  XX=2
  XY=3
  KX=2
  KY=3
  CALL INTI(XX,XY,KX,KY)
  X(4,2)=X(2,2)*K(2)-X(3,2)*K(4)
  XX=4
  XY=5
  KX=5
  KY=6
  CALL INTI(XX,XY,KX,KY)
  X(6,2)=X(4,2)+X(5,2)*K(7)
  X(7,2)=X(6,2)*K(8)*K(9)/X(24,2)-X(14,2)*K(23)
  XX=7
  XY=8
  KX=10
  KY=11
  CALL INTI(XX,XY,KX,KY)
  X(9,2)=X(7,2)*K(10)+X(8,2)*K(12)-X(14,2)*K(22)
  XX=9
  XY=10
  KX=13
  KY=14

```

```

CALL INTI(XX,XY,KX,KY)
X(11,2)=(X(9,2)*K(13)+X(10,2)*K(15))*K(16)
XX=11
XY=12
KX=17
KY=18
CALL INTI(XX,XY,KX,KY)
X(13,2)=X(12,2)-X(25,2)
XX=13
XY=14
KX=19
KY=20
CALL INTI(XX,XY,KX,KY)
X(15,2)=X(14,2)*K(21)*X(24,2)/K(8)-X(26,2)*K(21)
XX=15
XY=16
KX=5
KY=6
CALL INTI(XX,XY,KX,KY)
XX=16
XY=17
KX=24
KY=25
CALL INTI(XX,XY,KX,KY)
X(19,2)=X(18,2)*K(27)-X(25,2)*K(38)
XX=19
XY=20
KX=5
KY=6
CALL INTI(XX,XY,KX,KY)
X(21,2)=X(19,2)*K(29)+X(20,2)*K(28)*K(29)-X(24,2)*K(37)
XX=21
XY=22
KX=30
KY=31
CALL INTI(XX,XY,KX,KY)
XX=22
XY=23
KX=32
KY=33
CALL INTI(XX,XY,KX,KY)
XX=23
XY=24
KX=34
KY=35
CALL INTI(XX,XY,KX,KY)
X(25,2)=X(24,2)*X(16,2)*K(36)
ENDDO
IF (C.GT.MXIT) THEN
  PRINT *,C,'ITERATIVE LOOPS AT:',T,'SEC.'
END IF
PTC=PTC+1
T=T+DLT
IF (PTC.EQ.PTCD) THEN
  PTC=0
  IF(XI.GT.21) THEN
    WRITE(13,70),T,(X(I,2),I=22,XI)
  END IF
  IF(XI1.GT.14) THEN
    WRITE(12,70),T,(X(I,2),I=15,XI1)
  
```



```
      END IF
      IF(XI2.GT.7) THEN
        WRITE(11,70),T,(X(I,2),I=8,XI2)
      END IF
      WRITE(10,70),T,(X(I,2),I=1,XI3)
    END IF
    DO I=1,XI
      X(I,1)=X(I,2)
    END DO
  ENDDO
END
```

```

C      Appendix #13.
C
C      SUBROUTINE INTI (XX,XY,KX,KY)
C
C
C*****
C      FUNCTION : This subroutine calculates the output signal of
C                 an integrator with feedback after an increment of time.
C                 The subroutine also check for variation of the output
C                 after the increment, to indicate a steady result in the
C                 iteration.
C
C      AUTHOR : LEONARDO KOPELOFF. JAN.85
C
C      LANGUAGE : FORTRAN-77
C
C      INPUTS : STATE VARIABLES AND COEFFICIENTS AS COMMON.
C              INPUT,  OUTPUT AND COEFFICIENTS OF THE INTEGRATOR CELL.
C              INCREMENT OF TIME. CONTINUE CALCULATION FLAG.
C
C      OUTPUTS : NEW VALUES FOR STATE VARIABLES AND CONTINUE CALCULATION
C              FLAG.
C*****
C      VARIABLE DECLARATION.
C*****
C      DOUBLE PRECISION X(28,3),K(50),DLT,ERRR/1.0E-6/
C      INTEGER XX,XY,KX,KY,FLAG
C      COMMON X,K,DLT,FLAG
C*****
C      CALCULATE THE OUTPUT OF THE INTEGRATOR CELL.
C*****
C      1  X(XY,3)=X(XY,1)*(1.0-DLT*K(KY)*0.5)/(1.0+DLT*K(KY)*0.5)+
C          DLT*0.5*K(KX)*(X(XX,1)+X(XX,2))/(1.0+DLT*0.5*K(KY))
C*****
C      CHECK FOR DIFFERENCE BETWEEN OLD AND NEW OUTPUT AND SET FLAG.
C*****
C      IF ((ABS(X(XY,3)-X(XY,2)))/(ABS(X(XY,3))+1.0E-20).GT.ERRR) THEN
C          FLAG = 0
C      END IF
C*****
C      UPDATE OLD VALUE OF OUTPUT.
C*****

```

C

```
X(XY,2) = X(XY,3)  
RETURN  
END
```

```

C      Appendix #14.
C
C      PROGRAM INT
C
C-----
C
C      FUNCTION : This program will perform an iterative calculation
C                  of a certain network.
C                  It utilizes the INTI subroutine to solve integrator cells,
C                  algebraic expressions to solve other nodes, and iterations
C                  for long path feedbacks.
C
C      Author : Leonardo Kopeloff.  Jan.85
C
C      Language : Fortran-77
C
C      Inputs : Interval, interval quantity, number of state variables,
C                number of coefficients and initial conditions.
C
C      Outputs : State vector time response.
C
C      Linking :Link with INTI subroutine .
C-----
C
C      VARIABLE DECLARATION.
C-----
C
C      INTEGER XI,KI,Z(14),XI1,FLAG,PTC/0/,MXIT,C,I,PTCD,XX,XY,KX,KY
C
C      DOUBLE PRECISION X(28,3),K(50),DLT,FTIM,T/0.0/
C
C      COMMON X,K,DLT,FLAG
C-----
C
C      OPEN THE OUTPUT FILE.
C-----
C
C      OPEN (UNIT=10,STATUS='NEW',NAME='SP1.DAT')
C      OPEN (UNIT=11,STATUS='NEW',NAME='SP2.DAT')
C-----
C
C      READ AND PRINT INPUT DATA.
C-----
C
50      FORMAT('1',5X,'ITERATIVE METHOD. TIME RESPONSE',/)
60      FORMAT(/,70('*'),/)
70      FORMAT(1PBE13.4)
80      FORMAT(5X,'COEFFICIENTS VALUES.',/)
90      FORMAT(5X,'TIME          ',7(I2,' VARIABLE '))

```

```

PRINT *, 'ENTER NUMBER OF VARIABLES.'
READ *, XI
PRINT *, 'ENTER NUMBER OF COEFFICIENTS.'
READ *, KI
PRINT *, 'ENTER VARIABLES INITIAL VALUES.'
DO I=1, XI
    READ *, X(I, 1)
    X(I, 2)=X(I, 1)
    X(I, 3)=0.0
END DO
PRINT *, 'ENTER COEFFICIENTS VALUES.'
DO I=1, KI
    READ *, K(I)
END DO
PRINT *, 'ENTER INCREMENT OF TIME AND FINAL TIME.'
READ *, DLT, FTIM
PRINT *, 'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
READ *, PTCD, MXIT

C
DO I=1, XI
    Z(I)=I
END DO

C
C*****
C
C    WRITE TITLE AND INITIAL CONDITIONS.
C*****
C
WRITE(10, 50)
WRITE(10, 60)
WRITE(10, 80)
WRITE(10, 70), (K(I), I=1, KI)
WRITE(10, 60)
IF (XI.GT.7) THEN
    WRITE(11, 50)
    WRITE(11, 60)
    WRITE(11, 80)
    WRITE(11, 70), (K(I), I=1, KI)
    WRITE(11, 60)
    WRITE(11, 90), (Z(I), I=8, KI)
    WRITE(11, 70), T, (X(I, 1), I=8, XI)
    XI1=7
ELSE
    XI1=XI
ENDIF
WRITE(10, 90), (Z(I), I=1, XI1)
WRITE(10, 70), T, (X(I, 1), I=1, XI1)

C
C-----
C
C    TIME LOOP.
C-----
C
DO WHILE (T.LE.FTIM)
    C=0
    FLAG=0
C*****

```

```

C
C      ITERATION LOOP.
C*****
C
C      DO WHILE ((FLAG.LT.1).AND.(C.LE.MXIT))
C          C=C+1
C          FLAG=1
C          PRINT *, 'C:', C, 'T:', T, 'MXIT', MXIT
C          X(2,2)=X(1,2)*K(1)-X(8,2)*K(13)
C          XX=2
C          XY=3
C          KX=2
C          KY=14
C          CALL INTI(XX,XY,KX,KY)
C          X(4,2)=X(2,2)*K(2)+X(3,2)*K(3)-X(8,2)*K(12)
C          XX=4
C          XY=5
C          KX=4
C          KY=5
C          CALL INTI(XX,XY,KX,KY)
C          X(6,2)=X(4,2)*K(4)*K(7)+X(5,2)*K(6)*K(7)
C          XX=6
C          XY=7
C          KX=8
C          KY=9
C          CALL INTI(XX,XY,KX,KY)
C          XX=7
C          XY=8
C          KX=10
C          KY=11
C          CALL INTI(XX,XY,KX,KY)
C          PRINT *, FLAG, 'C', C
C          PRINT *, X(2,1), X(2,2), X(2,3), X(3,1), X(3,2), X(3,3)
C          ENDDO
C          IF (C.GT.MXIT) THEN
C              PRINT *, C, 'ITERATIVE LOOPS AT:', T, 'SEC.'
C          END IF
C          PTC=PTC+1
C          T=T+DLT
C          IF (PTC.EQ.PTCD) THEN
C              PTC=0
C              IF(XI.GT.7) THEN
C                  WRITE(11,70), T, (X(1,2), I=8, XI)
C              END IF
C              WRITE(10,70), T, (X(1,2), I=1, XI1)
C          END IF
C          DO I=1, XI
C              X(1,1)=X(1,2)
C          END DO
C          ENDDO
C          END

```



1.4700E-01 3.6363E+00 5.2637E-07 1.0653E-09 2.9771E-09 6.1970E-04 3.6371E-01 5.9122E+01  
1.5000E-01 3.6363E+00 4.7815E-07 1.0862E-09 2.9772E-09 6.1961E-04 3.6316E-01 5.9124E+01  
1.5300E-01 3.6363E+00 4.3435E-07 1.0870E-09 2.9773E-09 6.1954E-04 3.6312E-01 5.9118E+01  
1.5600E-01 3.6363E+00 3.9457E-07 1.0878E-09 2.9774E-09 6.1947E-04 3.6308E-01 5.9112E+01  
1.5900E-01 3.6363E+00 3.5843E-07 1.0884E-09 2.9775E-09 6.1941E-04 3.6303E-01 5.9106E+01  
1.6200E-01 3.6363E+00 3.2559E-07 1.0890E-09 2.9775E-09 6.1935E-04 3.6300E-01 5.9097E+01  
1.6500E-01 3.6363E+00 2.9537E-07 1.0896E-09 2.9775E-09 6.1929E-04 3.6297E-01 5.9093E+01  
1.6800E-01 3.6363E+00 2.6865E-07 1.0701E-09 2.9775E-09 6.1925E-04 3.6293E-01 5.9089E+01  
1.7100E-01 3.6363E+00 2.4470E-07 1.0705E-09 2.9777E-09 6.1921E-04 3.6293E-01 5.9086E+01  
1.7400E-01 3.6363E+00 2.2171E-07 1.0710E-09 2.9777E-09 6.1917E-04 3.6291E-01 5.9082E+01  
1.7700E-01 3.6363E+00 2.0198E-07 1.0713E-09 2.9778E-09 6.1914E-04 3.6289E-01 5.9080E+01  
1.8000E-01 3.6363E+00 1.8295E-07 1.0717E-09 2.9778E-09 6.1911E-04 3.6288E-01 5.9077E+01  
1.8300E-01 3.6363E+00 1.6620E-07 1.0720E-09 2.9779E-09 6.1908E-04 3.6287E-01 5.9075E+01  
1.8600E-01 3.6363E+00 1.5097E-07 1.0723E-09 2.9779E-09 6.1905E-04 3.6287E-01 5.9073E+01  
1.8900E-01 3.6363E+00 1.3714E-07 1.0725E-09 2.9779E-09 6.1903E-04 3.6285E-01 5.9071E+01  
1.9200E-01 3.6363E+00 1.2458E-07 1.0728E-09 2.9779E-09 6.1900E-04 3.6284E-01 5.9069E+01  
1.9500E-01 3.6363E+00 1.1317E-07 1.0730E-09 2.9780E-09 6.1898E-04 3.6283E-01 5.9068E+01  
1.9800E-01 3.6363E+00 1.0280E-07 1.0732E-09 2.9780E-09 6.1897E-04 3.6281E-01 5.9066E+01  
2.0100E-01 3.6363E+00 9.3387E-08 1.0733E-09 2.9780E-09 6.1895E-04 3.6280E-01 5.9065E+01  
2.0400E-01 3.6363E+00 8.4832E-08 1.0735E-09 2.9780E-09 6.1894E-04 3.6280E-01 5.9065E+01  
2.0700E-01 3.6363E+00 7.7002E-08 1.0736E-09 2.9780E-09 6.1892E-04 3.6280E-01 5.9064E+01  
2.1000E-01 3.6363E+00 7.0003E-08 1.0738E-09 2.9781E-09 6.1891E-04 3.6279E-01 5.9063E+01  
2.1300E-01 3.6363E+00 6.3591E-08 1.0739E-09 2.9781E-09 6.1890E-04 3.6279E-01 5.9062E+01  
2.1600E-01 3.6363E+00 5.7766E-08 1.0740E-09 2.9781E-09 6.1889E-04 3.6278E-01 5.9061E+01  
2.1900E-01 3.6363E+00 5.2475E-08 1.0741E-09 2.9781E-09 6.1888E-04 3.6278E-01 5.9060E+01  
2.2200E-01 3.6363E+00 4.7668E-08 1.0742E-09 2.9781E-09 6.1887E-04 3.6277E-01 5.9059E+01  
2.2500E-01 3.6363E+00 4.3302E-08 1.0742E-09 2.9781E-09 6.1886E-04 3.6277E-01 5.9058E+01  
2.2800E-01 3.6363E+00 3.9335E-08 1.0743E-09 2.9781E-09 6.1886E-04 3.6276E-01 5.9058E+01  
2.3100E-01 3.6363E+00 3.5732E-08 1.0744E-09 2.9781E-09 6.1885E-04 3.6276E-01 5.9057E+01  
2.3400E-01 3.6363E+00 3.2459E-08 1.0744E-09 2.9781E-09 6.1885E-04 3.6276E-01 5.9056E+01  
2.3700E-01 3.6363E+00 2.9489E-08 1.0745E-09 2.9781E-09 6.1885E-04 3.6276E-01 5.9056E+01  
2.4000E-01 3.6363E+00 2.6785E-08 1.0745E-09 2.9781E-09 6.1884E-04 3.6275E-01 5.9056E+01  
2.4300E-01 3.6363E+00 2.4332E-08 1.0746E-09 2.9781E-09 6.1884E-04 3.6275E-01 5.9056E+01  
2.4600E-01 3.6363E+00 2.2103E-08 1.0746E-09 2.9782E-09 6.1883E-04 3.6275E-01 5.9056E+01  
2.4900E-01 3.6363E+00 2.0078E-08 1.0747E-09 2.9782E-09 6.1883E-04 3.6275E-01 5.9055E+01  
2.5200E-01 3.6363E+00 1.8239E-08 1.0747E-09 2.9782E-09 6.1882E-04 3.6274E-01 5.9055E+01  
2.5500E-01 3.6363E+00 1.6588E-08 1.0747E-09 2.9782E-09 6.1882E-04 3.6274E-01 5.9055E+01  
2.5800E-01 3.6363E+00 1.5091E-08 1.0748E-09 2.9782E-09 6.1881E-04 3.6274E-01 5.9054E+01  
2.6100E-01 3.6363E+00 1.3672E-08 1.0748E-09 2.9782E-09 6.1881E-04 3.6274E-01 5.9054E+01  
2.6400E-01 3.6363E+00 1.2420E-08 1.0748E-09 2.9782E-09 6.1881E-04 3.6274E-01 5.9054E+01  
2.6700E-01 3.6363E+00 1.1282E-08 1.0748E-09 2.9782E-09 6.1881E-04 3.6274E-01 5.9054E+01  
2.7000E-01 3.6363E+00 1.0249E-08 1.0749E-09 2.9782E-09 6.1881E-04 3.6274E-01 5.9054E+01  
2.7300E-01 3.6363E+00 9.3099E-09 1.0749E-09 2.9782E-09 6.1881E-04 3.6274E-01 5.9053E+01  
2.7600E-01 3.6363E+00 8.4571E-09 1.0749E-09 2.9782E-09 6.1880E-04 3.6273E-01 5.9053E+01  
2.7900E-01 3.6363E+00 7.6825E-09 1.0749E-09 2.9782E-09 6.1880E-04 3.6273E-01 5.9053E+01  
2.8200E-01 3.6363E+00 6.9788E-09 1.0749E-09 2.9782E-09 6.1880E-04 3.6273E-01 5.9053E+01  
2.8500E-01 3.6363E+00 6.3395E-09 1.0749E-09 2.9782E-09 6.1880E-04 3.6273E-01 5.9053E+01  
2.8800E-01 3.6363E+00 5.7588E-09 1.0749E-09 2.9782E-09 6.1880E-04 3.6273E-01 5.9053E+01  
2.9100E-01 3.6363E+00 5.2313E-09 1.0749E-09 2.9782E-09 6.1880E-04 3.6273E-01 5.9053E+01  
2.9400E-01 3.6363E+00 4.7521E-09 1.0750E-09 2.9782E-09 6.1880E-04 3.6273E-01 5.9053E+01  
2.9700E-01 3.6363E+00 4.3166E-09 1.0750E-09 2.9782E-09 6.1880E-04 3.6273E-01 5.9053E+01  
3.0000E-01 3.6363E+00 3.9284E-09 1.0750E-09 2.9784E-09 6.1880E-04 3.6273E-01 5.9053E+01



ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	B	VARIABLE
0.0000E+00	0.0000E+00	
3.0000E-03	7.2075E+02	
6.0000E-03	1.3407E+03	
9.0000E-03	1.8795E+03	
1.2000E-02	2.3623E+03	
1.5000E-02	2.7895E+03	
1.8000E-02	3.1963E+03	
2.1000E-02	3.587E+03	
2.4000E-02	3.8840E+03	
2.7000E-02	4.1813E+03	
3.0000E-02	4.4514E+03	
3.3000E-02	4.6968E+03	
3.6000E-02	4.9198E+03	
3.9000E-02	5.121E+03	
4.2000E-02	5.3060E+03	
4.5000E-02	5.4731E+03	
4.8000E-02	5.6249E+03	
5.1000E-02	5.7627E+03	
5.4000E-02	5.8880E+03	
5.7000E-02	6.0018E+03	
6.0000E-02	6.1051E+03	
6.3000E-02	6.1990E+03	
6.6000E-02	6.2843E+03	
6.9000E-02	6.3617E+03	
7.2000E-02	6.4321E+03	
7.5000E-02	6.4960E+03	
7.8000E-02	6.5541E+03	
8.1000E-02	6.6069E+03	
8.4000E-02	6.6548E+03	
8.7000E-02	6.6983E+03	
9.0000E-02	6.7378E+03	
9.3000E-02	6.773E+03	
9.6000E-02	6.8064E+03	
9.9000E-02	6.836E+03	
1.0200E-01	6.8630E+03	
1.0500E-01	6.8874E+03	
1.0800E-01	6.9096E+03	
1.1100E-01	6.9298E+03	
1.1400E-01	6.9482E+03	
1.1700E-01	6.9648E+03	
1.2000E-01	6.9800E+03	
1.2300E-01	6.9937E+03	
1.2600E-01	7.0062E+03	
1.2900E-01	7.0175E+03	
1.3200E-01	7.0278E+03	
1.3500E-01	7.0372E+03	
1.3800E-01	7.0457E+03	
1.4100E-01	7.0534E+03	
1.4400E-01	7.0604E+03	
1.4700E-01	7.0668E+03	
1.5000E-01	7.0726E+03	
1.6330E-05	5.9000E-04	1.6940E+03
2.2000E+03	3.3586E+03	2.7800E+01
		2.5600E+08
		2.5600E-10
		2.5600E+02
		8.3283E-09
		0.0000E+00
		1.7140E+00
		3.5816E+05

1.5300E-01 7.0778E+03  
1.5600E-01 7.0826E+03  
1.5900E-01 7.0870E+03  
1.6200E-01 7.0909E+03  
1.6500E-01 7.0945E+03  
1.6800E-01 7.0977E+03  
1.7100E-01 7.1007E+03  
1.7400E-01 7.1034E+03  
1.7700E-01 7.1058E+03  
1.8000E-01 7.1080E+03  
1.8300E-01 7.1100E+03  
1.8600E-01 7.1119E+03  
1.8900E-01 7.1135E+03  
1.9200E-01 7.1150E+03  
1.9500E-01 7.1164E+03  
1.9800E-01 7.1177E+03  
2.0100E-01 7.1189E+03  
2.0400E-01 7.1198E+03  
2.0700E-01 7.1207E+03  
2.1000E-01 7.1216E+03  
2.1300E-01 7.1224E+03  
2.1600E-01 7.1231E+03  
2.1900E-01 7.1237E+03  
2.2200E-01 7.1243E+03  
2.2500E-01 7.1248E+03  
2.2800E-01 7.1253E+03  
2.3100E-01 7.1257E+03  
2.3400E-01 7.1261E+03  
2.3700E-01 7.1265E+03  
2.4000E-01 7.1268E+03  
2.4300E-01 7.1271E+03  
2.4600E-01 7.1273E+03  
2.4900E-01 7.1276E+03  
2.5200E-01 7.1278E+03  
2.5500E-01 7.1280E+03  
2.5800E-01 7.1282E+03  
2.6100E-01 7.1284E+03  
2.6400E-01 7.1285E+03  
2.6700E-01 7.1286E+03  
2.7000E-01 7.1288E+03  
2.7300E-01 7.1289E+03  
2.7600E-01 7.1290E+03  
2.7900E-01 7.1291E+03  
2.8200E-01 7.1292E+03  
2.8500E-01 7.1292E+03  
2.8800E-01 7.1293E+03  
2.9100E-01 7.1293E+03  
2.9400E-01 7.1294E+03  
2.9700E-01 7.1295E+03  
3.0000E-01 7.1295E+03

Appendix #16.

ITERATIVE METHOD. TIME RESPONSE

.....

COEFFICIENTS VALUES..

.....

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.0000E+00	5.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E-02	5.0000E+00	4.7514E-05	1.3661E+04	9.1455E+05	1.4036E+00	0.5000E+00	0.0000E+00
2.0000E-02	5.0000E+00	4.1843E-05	1.8476E+04	2.8968E+05	1.9550E+04	4.4306E+00	8.3861E-09
3.0000E-02	5.0000E+00	3.5527E-05	1.8461E+04	-2.1234E+04	2.0550E+04	8.0377E+00	5.8286E-08
4.0000E-02	5.0000E+00	2.9272E-05	1.6668E+04	-1.4210E+05	1.5685E+04	1.6332E+01	1.6543E-07
5.0000E-02	5.0000E+00	2.3582E-05	1.4226E+04	-1.8275E+05	1.8017E+04	1.4986E+01	3.2964E-07
6.0000E-02	5.0000E+00	1.8583E-05	1.1711E+04	-1.9681E+05	1.6150E+04	1.8021E+01	5.4426E-07
7.0000E-02	5.0000E+00	1.4273E-05	9.3671E+03	-1.7531E+05	1.4332E+04	2.0726E+01	8.0054E-07
8.0000E-02	5.0000E+00	1.0598E-05	7.2823E+03	-1.5820E+05	1.2662E+04	2.3120E+01	1.4036E-06
9.0000E-02	5.0000E+00	7.4817E-06	5.4734E+03	-1.4066E+05	1.1171E+04	2.5234E+01	1.7352E-06
1.0000E-01	5.0000E+00	4.8558E-06	3.9281E+03	-1.2285E+05	9.8578E+03	2.7099E+01	2.0786E-06
1.0000E-01	5.0000E+00	2.8503E-06	2.6141E+03	-1.0734E+05	8.7084E+03	2.8745E+01	2.4287E-06
1.0000E-01	5.0000E+00	8.0423E-07	1.5081E+03	-9.3697E+04	7.7047E+03	3.0201E+01	2.7815E-06
1.0000E-01	5.0000E+00	7.3525E-07	5.8032E+02	-8.1844E+04	6.8284E+03	3.1490E+01	3.1335E-06
1.0000E-01	5.0000E+00	-2.0137E-06	-1.9475E+02	-7.1610E+04	6.0624E+03	3.2633E+01	3.4820E-06
1.0000E-01	5.0000E+00	-3.9374E-06	-8.3834E+02	-6.2796E+04	5.3915E+03	3.3648E+01	3.8249E-06
1.0000E-01	5.0000E+00	-4.640E-06	-1.8114E+03	-4.8674E+04	4.8024E+03	3.4553E+01	4.1604E-06
1.0000E-01	5.0000E+00	-5.2137E-06	-2.1694E+03	-3.8160E+04	4.2838E+03	3.5353E+01	4.4872E-06
1.0000E-01	5.0000E+00	-6.0214E-06	-2.4588E+03	-3.1606E+04	3.8259E+03	3.6078E+01	4.8043E-06
1.0000E-01	5.0000E+00	-6.7913E-06	-2.6899E+03	-3.3934E+04	3.4205E+03	3.6721E+01	5.1108E-06
1.0000E-01	5.0000E+00	-6.4895E-06	-2.8712E+03	-3.0261E+04	2.7400E+03	3.7296E+01	5.4064E-06
1.0000E-01	5.0000E+00	-6.6267E-06	-3.0102E+03	-2.7059E+04	2.4532E+03	3.8271E+01	5.6905E-06
1.0000E-01	5.0000E+00	-6.7120E-06	-3.1133E+03	-2.4260E+04	2.1678E+03	3.8663E+01	6.2240E-06
1.0000E-01	5.0000E+00	-6.7533E-06	-3.2322E+03	-2.1804E+04	1.9674E+03	3.9053E+01	6.4733E-06
1.0000E-01	5.0000E+00	-6.7573E-06	-3.2566E+03	-1.9643E+04	1.7604E+03	3.9384E+01	6.7110E-06
1.0000E-01	5.0000E+00	-6.7298E-06	-3.2823E+03	-1.7234E+04	1.5737E+03	3.9679E+01	6.9373E-06
1.0000E-01	5.0000E+00	-6.6757E-06	-3.2521E+03	-1.6042E+04	1.4050E+03	3.9944E+01	7.1525E-06
1.0000E-01	5.0000E+00	-6.5992E-06	-3.2286E+03	-1.4588E+04	1.2522E+03	4.0179E+01	7.3567E-06
1.0000E-01	5.0000E+00	-6.5040E-06	-3.1939E+03	-1.3386E+04	1.137E+03	4.0389E+01	7.5504E-06
1.0000E-01	5.0000E+00	-6.3932E-06	-3.1497E+03	-1.1995E+04	9.8783E+02	4.0576E+01	7.7338E-06
1.0000E-01	5.0000E+00	-6.2686E-06	-3.0977E+03	-1.0916E+04	8.7337E+02	4.0741E+01	7.9072E-06
1.0000E-01	5.0000E+00	-5.9375E-06	-3.0392E+03	-9.9436E+03	7.6915E+02	4.0887E+01	8.0711E-06
1.0000E-01	5.0000E+00	-5.1925E-06	-2.9074E+03	-8.2687E+03	5.8758E+02	4.1015E+01	8.2256E-06
1.0000E-01	5.0000E+00	-5.8436E-06	-2.8359E+03	-6.8658E+03	5.0856E+02	4.1125E+01	8.3713E-06
1.0000E-01	5.0000E+00	-5.6891E-06	-2.7817E+03	-6.2838E+03	4.3646E+02	4.1245E+01	8.5085E-06
1.0000E-01	5.0000E+00	-5.5307E-06	-2.6806E+03	-5.7239E+03	3.6466E+02	4.1308E+01	8.6375E-06
1.0000E-01	5.0000E+00	-5.2068E-06	-2.6080E+03	-5.2278E+03	3.1061E+02	4.1400E+01	8.7566E-06
1.0000E-01	5.0000E+00	-5.0430E-06	-2.5285E+03	-4.7638E+03	2.5584E+02	4.1490E+01	8.8723E-06
1.0000E-01	5.0000E+00	-4.8791E-06	-2.4505E+03	-4.3371E+03	2.0527E+02	4.1531E+01	9.0787E-06
1.0000E-01	5.0000E+00	-4.7157E-06	-2.3713E+03	-3.9440E+03	1.6044E+02	4.1588E+01	9.1720E-06
1.0000E-01	5.0000E+00	-4.5534E-06	-2.2923E+03	-3.5816E+03	1.1906E+02	4.1588E+01	9.2592E-06
1.0000E-01	5.0000E+00	-4.3926E-06	-2.2138E+03	-3.2471E+03	8.1460E+01	4.1606E+01	9.3405E-06
1.0000E+00	5.0000E+00	-4.2337E-06	-2.1360E+03	-2.9202E+03	4.7338E+01	4.1617E+01	9.4163E-06
1.0000E+00	5.0000E+00	-4.0717E-06	-2.0590E+03	-2.6202E+03	1.6432E+01	4.1623E+01	9.4868E-06
1.0000E+00	5.0000E+00	-3.9231E-06	-1.9832E+03	-2.3886E+03	-1.1503E+01	4.1623E+01	9.5524E-06
1.0000E+00	5.0000E+00	-3.7719E-06	-1.9085E+03	-2.1445E+03	-5.9342E+01	4.1619E+01	9.6132E-06
1.0000E+00	5.0000E+00	-3.7719E-06	-1.9085E+03	-2.1445E+03	-5.9342E+01	4.1610E+01	9.6686E-06

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4.9000E-01 5.0000E+00 -3.6238E-06 -1.8352E+03 -1.9187E+03 -7.9844E+01 4.1598E+01 8.7218E-06  
5.0000E-01 5.0000E+00 -3.4789E-06 -1.7634E+03 -1.7098E+03 -9.7773E+01 4.1598E+01 9.7700E-06  
5.1000E-01 5.0000E+00 -3.3374E-06 -1.6931E+03 -1.5167E+03 4.1598E+02 4.1598E+01 9.8144E-06  
5.2000E-01 5.0000E+00 -3.1994E-06 -1.6244E+03 -1.3382E+03 4.1598E+02 4.1598E+01 9.8553E-06  
5.3000E-01 5.0000E+00 -3.0649E-06 -1.5575E+03 -1.1733E+03 4.1598E+02 4.1598E+01 9.8929E-06  
5.4000E-01 5.0000E+00 -2.9341E-06 -1.4922E+03 -1.0211E+03 4.1598E+02 4.1598E+01 9.9274E-06  
5.5000E-01 5.0000E+00 -2.8070E-06 -1.4287E+03 -8.8055E+02 4.1598E+02 4.1598E+01 9.9589E-06  
5.6000E-01 5.0000E+00 -2.6836E-06 -1.3669E+03 -7.5103E+02 4.1598E+02 4.1598E+01 9.9877E-06  
5.7000E-01 5.0000E+00 -2.5640E-06 -1.3070E+03 -6.3174E+02 4.1598E+02 4.1598E+01 1.0014E-05  
5.8000E-01 5.0000E+00 -2.4481E-06 -1.2489E+03 -5.2201E+02 4.1598E+02 4.1598E+01 1.0038E-05  
5.9000E-01 5.0000E+00 -2.3359E-06 -1.1926E+03 -4.2120E+02 4.1598E+02 4.1598E+01 1.0059E-05  
6.0000E-01 5.0000E+00 -2.2275E-06 -1.1380E+03 -3.2872E+02 4.1598E+02 4.1598E+01 1.0079E-05  
6.1000E-01 5.0000E+00 -2.1227E-06 -1.0853E+03 -2.4402E+02 4.1598E+02 4.1598E+01 1.0096E-05  
6.2000E-01 5.0000E+00 -2.0216E-06 -1.0344E+03 -1.6655E+02 4.1598E+02 4.1598E+01 1.0111E-05  
6.3000E-01 5.0000E+00 -1.9240E-06 -9.8520E+02 -9.5855E+02 4.1598E+02 4.1598E+01 1.0125E-05  
6.4000E-01 5.0000E+00 -1.8300E-06 -9.3777E+02 -3.5836E+01 4.1598E+02 4.1598E+01 1.0137E-05  
6.5000E-01 5.0000E+00 -1.7395E-06 -8.9205E+02 -1.6788E+01 4.1598E+02 4.1598E+01 1.0148E-05  
6.6000E-01 5.0000E+00 -1.6524E-06 -8.4802E+02 7.9682E+01 4.1598E+02 4.1598E+01 1.0157E-05  
6.7000E-01 5.0000E+00 -1.5687E-06 -8.0564E+02 2.2744E+02 4.1598E+02 4.1598E+01 1.0165E-05  
6.8000E-01 5.0000E+00 -1.4882E-06 -7.6489E+02 1.7040E+02 4.1598E+02 4.1598E+01 1.0172E-05  
6.9000E-01 5.0000E+00 -1.4109E-06 -7.2574E+02 1.0891E+02 4.1598E+02 4.1598E+01 1.0178E-05  
7.0000E-01 5.0000E+00 -1.3369E-06 -6.8813E+02 2.4327E+02 4.1598E+02 4.1598E+01 1.0183E-05  
7.1000E-01 5.0000E+00 -1.2657E-06 -6.5204E+02 2.7377E+02 4.1598E+02 4.1598E+01 1.0187E-05  
7.2000E-01 5.0000E+00 -1.1976E-06 -6.1744E+02 3.0068E+02 4.1598E+02 4.1598E+01 1.0192E-05  
7.3000E-01 5.0000E+00 -1.1324E-06 -5.8427E+02 3.2428E+02 4.1598E+02 4.1598E+01 1.0193E-05  
7.4000E-01 5.0000E+00 -1.0699E-06 -5.5251E+02 3.4478E+02 4.1598E+02 4.1598E+01 1.0194E-05  
7.5000E-01 5.0000E+00 -1.0102E-06 -5.2211E+02 3.6244E+02 4.1598E+02 4.1598E+01 1.0194E-05  
7.6000E-01 5.0000E+00 -9.5317E-07 -4.9304E+02 3.7748E+02 4.1598E+02 4.1598E+01 1.0194E-05  
7.7000E-01 5.0000E+00 -8.9867E-07 -4.6525E+02 3.9004E+02 4.1598E+02 4.1598E+01 1.0193E-05  
7.8000E-01 5.0000E+00 -8.4665E-07 -4.3870E+02 4.0038E+02 4.1598E+02 4.1598E+01 1.0192E-05  
7.9000E-01 5.0000E+00 -7.9702E-07 -4.1336E+02 4.0865E+02 4.1598E+02 4.1598E+01 1.0191E-05  
8.0000E-01 5.0000E+00 -7.4971E-07 -3.8918E+02 4.1501E+02 4.1598E+02 4.1598E+01 1.0189E-05  
8.1000E-01 5.0000E+00 -7.0463E-07 -3.6613E+02 4.1964E+02 4.1598E+02 4.1598E+01 1.0187E-05  
8.2000E-01 5.0000E+00 -6.6172E-07 -3.4416E+02 4.2267E+02 4.1598E+02 4.1598E+01 1.0185E-05  
8.3000E-01 5.0000E+00 -6.2088E-07 -3.2324E+02 4.2424E+02 4.1598E+02 4.1598E+01 1.0182E-05  
8.4000E-01 5.0000E+00 -5.8204E-07 -3.0334E+02 4.2455E+02 4.1598E+02 4.1598E+01 1.0179E-05  
8.5000E-01 5.0000E+00 -5.4514E-07 -2.8441E+02 4.2352E+02 4.1598E+02 4.1598E+01 1.0178E-05  
8.6000E-01 5.0000E+00 -5.1008E-07 -2.6641E+02 4.2174E+02 4.1598E+02 4.1598E+01 1.0172E-05  
8.7000E-01 5.0000E+00 -4.7682E-07 -2.4932E+02 4.1943E+02 4.1598E+02 4.1598E+01 1.0169E-05  
8.8000E-01 5.0000E+00 -4.4526E-07 -2.3310E+02 4.1650E+02 4.1598E+02 4.1598E+01 1.0165E-05  
8.9000E-01 5.0000E+00 -4.1535E-07 -2.1771E+02 4.0978E+02 4.1598E+02 4.1598E+01 1.0157E-05  
9.0000E-01 5.0000E+00 -3.8701E-07 -2.0312E+02 4.0435E+02 4.1598E+02 4.1598E+01 1.0151E-05  
9.1000E-01 5.0000E+00 -3.6019E-07 -1.8930E+02 3.9828E+02 4.1598E+02 4.1598E+01 1.0153E-05  
9.2000E-01 5.0000E+00 -3.3482E-07 -1.7622E+02 3.9167E+02 4.1598E+02 4.1598E+01 1.0149E-05  
9.3000E-01 5.0000E+00 -3.1063E-07 -1.6384E+02 3.8456E+02 4.1598E+02 4.1598E+01 1.0145E-05  
9.4000E-01 5.0000E+00 -2.8877E-07 -1.5213E+02 3.7704E+02 4.1598E+02 4.1598E+01 1.0141E-05  
9.5000E-01 5.0000E+00 -2.6859E-07 -1.4107E+02 3.6916E+02 4.1598E+02 4.1598E+01 1.0137E-05  
9.6000E-01 5.0000E+00 -2.4659E-07 -1.3063E+02 3.6096E+02 4.1598E+02 4.1598E+01 1.0132E-05  
9.7000E-01 5.0000E+00 -2.2757E-07 -1.2078E+02 3.5252E+02 4.1598E+02 4.1598E+01 1.0128E-05  
9.8000E-01 5.0000E+00 -2.0965E-07 -1.1150E+02 3.4366E+02 4.1598E+02 4.1598E+01 1.0124E-05  
9.9000E-01 5.0000E+00 -1.9279E-07 -1.0275E+02 3.3504E+02 4.1598E+02 4.1598E+01 1.0120E-05  
1.0000E+00 5.0000E+00 -1.7693E-07 -9.4512E+01 3.2699E+02 4.1598E+02 4.1598E+01 1.0116E-05

Appendix #17.

ITERATIVE METHOD. TIME RESPONSE

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COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.0000E+00	5.0500E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E-01	5.0500E+00	4.8604E-05	2.4271E-01	2.1406E+01	2.8468E+01	2.2830E+01	2.5099E-04
2.0000E-02	5.0500E+00	4.3875E-05	3.2281E-01	1.3049E+01	4.5227E-01	1.5310E+01	9.681E-05
3.0000E-02	5.0500E+00	3.8832E-05	3.3068E-01	8.283E+00	5.5927E-01	1.1625E+01	3.9587E-05
4.0000E-02	5.0500E+00	3.4284E-05	3.1048E-01	6.6793E+00	6.3562E-01	8.8514E+00	2.2048E-05
5.0000E-02	5.0500E+00	3.0353E-05	2.818E-01	5.4871E+00	6.9590E-01	6.9666E+00	2.2088E-05
6.0000E-02	5.0500E+00	2.6925E-05	2.5232E-01	4.7155E+00	7.4871E-01	6.4490E+00	2.6048E-05
7.0000E-02	5.0500E+00	2.3844E-05	2.2495E-01	4.0961E+00	7.9070E-01	6.0496E+00	2.6829E-05
8.0000E-02	5.0500E+00	2.0981E-05	1.9939E-01	3.5181E+00	8.2876E-01	7.6599E+00	2.1751E-05
9.0000E-01	5.0500E+00	1.8251E-05	1.7547E-01	2.9363E+00	8.6107E-01	7.2414E+00	1.1190E-05
1.0000E-01	5.0500E+00	1.5609E+00	1.5271E-01	2.3516E+00	8.8746E-01	6.7889E+00	-2.7106E-06
1.2000E-01	5.0500E+00	1.304E-05	1.3081E-01	1.7723E+00	9.0807E-01	6.3126E+00	-1.7289E-05
1.3000E-01	5.0500E+00	1.0570E-05	1.0966E-01	1.2141E+00	9.2298E-01	5.8290E+00	-3.0289E-05
1.4000E-01	5.0500E+00	8.2114E-06	8.932E-02	6.9287E-01	9.3248E-01	5.3551E+00	-4.0334E-05
1.5000E-01	5.0500E+00	5.992E-06	6.9983E-02	2.2066E-01	9.3708E-01	4.9057E+00	-4.6888E-05
1.6000E-01	5.0500E+00	3.9620E-06	5.1829E-02	-1.9371E-01	9.3708E-01	4.4917E+00	-5.0104E-05
1.7000E-01	5.0500E+00	2.1215E-06	3.5076E-02	-5.4683E-01	9.3333E-01	4.1198E+00	-5.0517E-05
1.8000E-01	5.0500E+00	9.2692E-07	2.3808E-02	-8.3918E-01	9.2835E-01	3.7926E+00	-4.8818E-05
1.9000E-01	5.0500E+00	-2.1358E-08	1.674E-02	-1.0745E-01	9.1674E-01	3.5094E+00	-4.5692E-05
2.0000E-01	5.0500E+00	-3.1468E-08	1.15541E-02	-1.2578E+00	9.0503E-01	3.2674E+00	-4.1732E-05
2.1000E-01	5.0500E+00	-3.9753E-08	8.1081E-02	-1.4055E-02	8.9173E-01	3.0624E+00	-3.7406E-05
2.2000E-01	5.0500E+00	-4.6401E-08	5.6258E-02	-1.4965E+00	8.7724E-01	2.8897E+00	-3.3048E-05
2.3000E-01	5.0500E+00	-5.1605E-08	3.6758E-02	-1.5651E+00	8.6191E-01	2.7444E+00	-2.8883E-05
2.4000E-01	5.0500E+00	-5.5557E-08	2.4328E-02	-1.6080E+00	8.4602E-01	2.6221E+00	-2.5046E-05
2.5000E-01	5.0500E+00	-5.8441E-08	1.6304E+00	-1.6304E+00	8.2981E-01	2.5186E+00	-2.1602E-05
2.6000E-01	5.0500E+00	-6.0426E-08	4.673E-02	-1.6367E+00	8.1347E-01	2.4306E+00	-1.8571E-05
2.7000E-01	5.0500E+00	-6.1661E-08	4.7215E-02	-1.6303E+00	7.9712E-01	2.3553E+00	-1.5843E-05
2.8000E-01	5.0500E+00	-6.2280E-08	4.8966E-02	-1.6143E+00	7.8089E-01	2.2901E+00	-1.3690E-05
2.9000E-01	5.0500E+00	-6.2386E-08	5.0143E-02	-1.5909E+00	7.6486E-01	2.2334E+00	-1.1772E-05
3.0000E-01	5.0500E+00	-6.2105E-08	5.0953E-02	-1.5620E+00	7.4909E-01	2.1835E+00	-1.0148E-05
3.1000E-01	5.0500E+00	-6.1489E-08	5.0953E-02	-1.5289E+00	7.3363E-01	2.1393E+00	-8.7782E-06
3.2000E-01	5.0500E+00	-6.0618E-08	5.0794E-02	-1.4928E+00	7.1852E-01	2.0998E+00	-7.6239E-06
3.3000E-01	5.0500E+00	-5.9540E-08	5.0354E-02	-1.4548E+00	7.0378E-01	2.0644E+00	-6.6510E-06
3.4000E-01	5.0500E+00	-5.8309E-08	4.8851E-02	-1.4148E+00	6.8944E-01	2.0323E+00	-5.8298E-06
3.5000E-01	5.0500E+00	-5.6958E-08	4.7875E-02	-1.3742E+00	6.7549E-01	2.0033E+00	-5.1347E-06
3.6000E-01	5.0500E+00	-5.5520E-08	4.6794E-02	-1.3329E+00	6.6196E-01	1.9768E+00	-4.5440E-06
3.7000E-01	5.0500E+00	-5.4018E-08	4.5636E-02	-1.2915E+00	6.4893E-01	1.9527E+00	-4.0399E-06
3.8000E-01	5.0500E+00	-5.2472E-08	4.4420E-02	-1.2501E+00	6.3613E-01	1.9306E+00	-3.6079E-06
3.9000E-01	5.0500E+00	-5.0900E-08	4.3166E-02	-1.2088E+00	6.2383E-01	1.9103E+00	-3.2342E-06
4.0000E-01	5.0500E+00	-4.9313E-08	4.1885E-02	-1.1680E+00	6.1195E-01	1.8917E+00	-2.9105E-06
4.1000E-01	5.0500E+00	-4.7723E-08	4.0591E-02	-1.1276E+00	6.0047E-01	1.8747E+00	-2.6275E-06
4.2000E-01	5.0500E+00	-4.6138E-08	3.9291E-02	-1.0879E+00	5.8939E-01	1.8591E+00	-2.3792E-06
4.3000E-01	5.0500E+00	-4.4564E-08	3.7994E-02	-1.0488E+00	5.7871E-01	1.8448E+00	-2.1598E-06
4.4000E-01	5.0500E+00	-4.3007E-08	3.6705E-02	-1.0104E+00	5.6841E-01	1.8317E+00	-1.9650E-06
4.5000E-01	5.0500E+00	-4.1473E-08	-3.5429E-02	-9.7283E-01	5.5850E-01	1.8187E+00	-1.7910E-06
						1.8087E+00	-1.6350E-06

4.6000E-01	5.0500E+00	-3.9963E-08	-3.4170E-02	-9.0013E-01	5.3978E-01	1.7988E+00	-1.4844E-06
4.7000E-01	5.0500E+00	-3.8461E-08	-3.2930E-02	-8.6506E-01	5.3095E-01	1.7897E+00	-1.3672E-06
4.8000E-01	5.0500E+00	-3.7029E-08	-3.1713E-02	-8.3088E-01	5.2247E-01	1.7815E+00	-1.2518E-06
4.9000E-01	5.0500E+00	-3.5609E-08	-3.0521E-02	-7.9759E-01	5.1433E-01	1.7741E+00	-1.1467E-06
5.0000E-01	5.0500E+00	-3.4221E-08	-2.9353E-02	-7.6520E-01	5.0652E-01	1.7674E+00	-1.0508E-06
5.1000E-01	5.0500E+00	-3.2868E-08	-2.8213E-02	-7.3372E-01	4.9902E-01	1.7614E+00	-9.6301E-07
5.2000E-01	5.0500E+00	-3.1550E-08	-2.7100E-02	-7.0313E-01	4.9184E-01	1.7561E+00	-8.8254E-07
5.3000E-01	5.0500E+00	-3.0266E-08	-2.6016E-02	-6.7345E-01	4.8496E-01	1.7513E+00	-8.0864E-07
5.4000E-01	5.0500E+00	-2.9019E-08	-2.4960E-02	-6.4487E-01	4.7837E-01	1.7472E+00	-7.4069E-07
5.5000E-01	5.0500E+00	-2.7806E-08	-2.3933E-02	-6.1678E-01	4.7206E-01	1.7435E+00	-6.7813E-07
5.6000E-01	5.0500E+00	-2.6630E-08	-2.2933E-02	-5.8977E-01	4.6603E-01	1.7404E+00	-6.2049E-07
5.7000E-01	5.0500E+00	-2.5489E-08	-2.1967E-02	-5.6363E-01	4.6026E-01	1.7377E+00	-5.6735E-07
5.8000E-01	5.0500E+00	-2.4383E-08	-2.1028E-02	-5.3836E-01	4.5475E-01	1.7354E+00	-5.1832E-07
5.9000E-01	5.0500E+00	-2.3312E-08	-2.0118E-02	-5.1393E-01	4.4949E-01	1.7335E+00	-4.7309E-07
6.0000E-01	5.0500E+00	-2.2276E-08	-1.9236E-02	-4.9036E-01	4.4447E-01	1.7320E+00	-4.3134E-07
6.1000E-01	5.0500E+00	-2.1274E-08	-1.8383E-02	-4.6756E-01	4.3968E-01	1.7308E+00	-3.9281E-07
6.2000E-01	5.0500E+00	-2.0306E-08	-1.7557E-02	-4.4500E-01	4.3512E-01	1.7300E+00	-3.5726E-07
6.3000E-01	5.0500E+00	-1.9371E-08	-1.6760E-02	-4.2443E-01	4.3077E-01	1.7300E+00	-3.2446E-07
6.4000E-01	5.0500E+00	-1.8469E-08	-1.6003E-02	-4.0403E-01	4.2663E-01	1.7294E+00	-2.9421E-07
6.5000E-01	5.0500E+00	-1.7595E-08	-1.5246E-02	-3.8439E-01	4.2288E-01	1.7290E+00	-2.6632E-07
6.6000E-01	5.0500E+00	-1.6760E-08	-1.4530E-02	-3.6549E-01	4.1894E-01	1.7292E+00	-2.4063E-07
6.7000E-01	5.0500E+00	-1.5952E-08	-1.3838E-02	-3.4731E-01	4.1537E-01	1.7296E+00	-2.1697E-07
6.8000E-01	5.0500E+00	-1.5175E-08	-1.3173E-02	-3.2984E-01	4.1199E-01	1.7301E+00	-1.9521E-07
6.9000E-01	5.0500E+00	-1.4426E-08	-1.2532E-02	-3.1306E-01	4.0877E-01	1.7308E+00	-1.7520E-07
7.0000E-01	5.0500E+00	-1.3707E-08	-1.1915E-02	-2.9695E-01	4.0572E-01	1.7317E+00	-1.5682E-07
7.1000E-01	5.0500E+00	-1.3015E-08	-1.1322E-02	-2.8150E-01	4.0283E-01	1.7327E+00	-1.3995E-07
7.2000E-01	5.0500E+00	-1.2351E-08	-1.0752E-02	-2.6676E-01	4.0009E-01	1.7350E+00	-1.2448E-07
7.3000E-01	5.0500E+00	-1.1714E-08	-1.0204E-02	-2.5247E-01	3.9750E-01	1.7350E+00	-1.1034E-07
7.4000E-01	5.0500E+00	-1.10516E-08	-9.6783E-03	-2.3886E-01	3.9504E-01	1.7350E+00	-9.7403E-08
7.5000E-01	5.0500E+00	-9.9543E-07	-9.1740E-03	-2.2594E-01	3.9272E-01	1.7378E+00	-8.5589E-08
7.6000E-01	5.0500E+00	-9.4162E-07	-8.6904E-03	-2.1337E-01	3.9052E-01	1.7392E+00	-7.4818E-08
7.7000E-01	5.0500E+00	-8.9011E-07	-8.2270E-03	-2.0145E-01	3.8845E-01	1.7408E+00	-6.5013E-08
7.8000E-01	5.0500E+00	-8.4084E-07	-7.7831E-03	-1.9007E-01	3.8649E-01	1.7424E+00	-5.6104E-08
7.9000E-01	5.0500E+00	-7.9374E-07	-7.3587E-03	-1.7919E-01	3.8469E-01	1.7440E+00	-4.8025E-08
8.0000E-01	5.0500E+00	-7.4872E-07	-6.9517E-03	-1.6890E-01	3.8291E-01	1.7457E+00	-4.0712E-08
8.1000E-01	5.0500E+00	-7.0574E-07	-6.5630E-03	-1.5899E-01	3.8127E-01	1.7474E+00	-3.4108E-08
8.2000E-01	5.0500E+00	-6.6471E-07	-6.1916E-03	-1.4952E-01	3.7973E-01	1.7492E+00	-2.8159E-08
8.3000E-01	5.0500E+00	-6.2557E-07	-5.8369E-03	-1.4044E-01	3.7828E-01	1.7509E+00	-2.2814E-08
8.4000E-01	5.0500E+00	-5.8825E-07	-5.4982E-03	-1.3167E-01	3.7692E-01	1.7527E+00	-1.8025E-08
8.5000E-01	5.0500E+00	-5.5270E-07	-5.1751E-03	-1.2371E-01	3.7564E-01	1.7545E+00	-1.3749E-08
8.6000E-01	5.0500E+00	-5.1884E-07	-4.8671E-03	-1.1594E-01	3.7444E-01	1.7563E+00	-9.9439E-09
8.7000E-01	5.0500E+00	-4.8661E-07	-4.5735E-03	-1.0856E-01	3.7332E-01	1.7580E+00	-6.5721E-09
8.8000E-01	5.0500E+00	-4.5596E-07	-4.2940E-03	-1.0155E-01	3.7227E-01	1.7598E+00	-3.5975E-09
8.9000E-01	5.0500E+00	-4.2683E-07	-4.0279E-03	-9.4885E-02	3.7129E-01	1.7615E+00	-9.8669E-10
9.0000E-01	5.0500E+00	-3.9915E-07	-3.7748E-03	-8.8564E-02	3.7037E-01	1.7633E+00	1.2908E-09
9.1000E-01	5.0500E+00	-3.7287E-07	-3.5341E-03	-8.2569E-02	3.6951E-01	1.7650E+00	3.2645E-09
9.2000E-01	5.0500E+00	-3.4794E-07	-3.3084E-03	-7.6888E-02	3.6872E-01	1.7667E+00	4.9608E-09
9.3000E-01	5.0500E+00	-3.2429E-07	-3.0884E-03	-7.1506E-02	3.6798E-01	1.7684E+00	6.407E-09
9.4000E-01	5.0500E+00	-3.0188E-07	-2.8824E-03	-6.6411E-02	3.6726E-01	1.7700E+00	7.6194E-09
9.5000E-01	5.0500E+00	-2.8066E-07	-2.6871E-03	-6.1593E-02	3.6656E-01	1.7716E+00	8.6261E-09
9.6000E-01	5.0500E+00	-2.6058E-07	-2.5019E-03	-5.7038E-02	3.6585E-01	1.7732E+00	9.4448E-09
9.7000E-01	5.0500E+00	-2.4158E-07	-2.3265E-03	-5.2735E-02	3.6505E-01	1.7748E+00	1.0094E-08
9.8000E-01	5.0500E+00	-2.2363E-07	-2.1605E-03	-4.8673E-02	3.6450E-01	1.7763E+00	1.0950E-08
1.0000E+00	5.0500E+00	-2.0468E-07	-1.8551E-03	-4.4842E-02	3.6410E-01	1.7778E+00	1.0950E-08
				-4.1230E-02	3.6410E-01	1.7793E+00	1.1186E-08

ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
1.0000E-05	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.8940E+03	5.1760E+02	2.5800E+01	3.1640E+02	1.7140E+00
3.5816E+05	3.3586E+03	2.7800E+01	1.7760E-02	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E-08	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E+01	5.6000E+04
1.0000E+03	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08		
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E-02	2.3825E-09	-6.7682E-09	4.9390E-03	2.6168E+00	4.3252E+02	4.1276E+02	1.6435E+04
2.0000E-02	3.3536E-09	8.7781E-09	3.8894E-03	2.1892E+00	3.5781E+02	2.8456E+02	2.2474E+04
3.0000E-02	3.7346E-09	1.7330E-08	3.6585E-03	2.1420E+00	3.4845E+02	2.4894E+02	2.4632E+04
4.0000E-02	3.9030E-09	1.3644E-08	3.7549E-03	2.2311E+00	3.6234E+02	2.3949E+02	2.5895E+04
5.0000E-02	4.0286E-09	2.3400E-08	3.9848E-03	2.3635E+00	3.8376E+02	2.4720E+02	2.9722E+04
6.0000E-02	4.1709E-09	2.4200E-08	4.1912E-03	2.4935E+00	4.0506E+02	2.5680E+02	2.7673E+04
7.0000E-02	4.3295E-09	2.4048E-08	4.3797E-03	2.5944E+00	4.2175E+02	2.6819E+02	2.7673E+04
8.0000E-02	4.4758E-09	2.3244E-08	4.5012E-03	2.6579E+00	4.3161E+02	2.7088E+02	2.9682E+04
1.0000E-01	4.6012E-09	2.1278E-08	4.5495E-03	2.6894E+00	4.3458E+02	2.8354E+02	3.0333E+04
1.0000E-01	4.5419E-09	2.0643E-08	4.4934E-03	2.6547E+00	4.2237E+02	2.8333E+02	3.0477E+04
1.2000E-01	4.4004E-09	2.0516E-08	4.4424E-03	2.5862E+00	4.2284E+02	2.2778E+02	2.9052E+04
1.3000E-01	4.1903E-09	2.0814E-08	4.4076E-03	2.5800E+00	4.2009E+02	2.0467E+02	2.8082E+04
1.4000E-01	3.9313E-09	2.1437E-08	4.4033E-03	2.5033E+00	4.2046E+02	1.8138E+02	2.7662E+04
1.5000E-01	3.6437E-09	2.2270E-08	4.4343E-03	2.6078E+00	4.2430E+02	1.5954E+02	2.5924E+04
1.6000E-01	3.3456E-09	2.3210E-08	4.5006E-03	2.6523E+00	4.3141E+02	1.4006E+02	2.4002E+04
1.7000E-01	3.0517E-09	2.4182E-08	4.5971E-03	2.7135E+00	4.4126E+02	1.2330E+02	2.2017E+04
1.8000E-01	2.7724E-09	2.5132E-08	4.7100E-03	2.7872E+00	4.5318E+02	1.0924E+02	2.0065E+04
1.9000E-01	2.5142E-09	2.6030E-08	4.8532E-03	2.8692E+00	4.6649E+02	9.7630E+01	1.8213E+04
2.0000E-01	2.2806E-09	2.6860E-08	4.9992E-03	2.9560E+00	4.8058E+02	8.0421E+01	1.6503E+04
2.1000E-01	2.0728E-09	2.7619E-08	5.1494E-03	3.0444E+00	4.9497E+02	7.4138E+01	1.4959E+04
2.2000E-01	1.8903E-09	2.8307E-08	5.2995E-03	3.1321E+00	5.0926E+02	6.9003E+01	1.3585E+04
2.3000E-01	1.7314E-09	2.8928E-08	5.4464E-03	3.2174E+00	5.2317E+02	6.4776E+01	1.2379E+04
2.4000E-01	1.5940E-09	2.9493E-08	5.5879E-03	3.2992E+00	5.3652E+02	6.1264E+01	1.1330E+04
2.5000E-01	1.4756E-09	3.0044E-08	5.7225E-03	3.3769E+00	5.4920E+02	5.8312E+01	1.0423E+04
2.6000E-01	1.3740E-09	3.0469E-08	5.8496E-03	3.4501E+00	5.6114E+02	5.5802E+01	9.6423E+03
2.7000E-01	1.2868E-09	3.0894E-08	5.9686E-03	3.5186E+00	5.7237E+02	5.3643E+01	8.3954E+03
2.8000E-01	1.2119E-09	3.1283E-08	6.0811E-03	3.5825E+00	5.8277E+02	5.1768E+01	7.9004E+03
2.9000E-01	1.1473E-09	3.1641E-08	6.1838E-03	3.6420E+00	5.9215E+02	5.0114E+01	7.4741E+03
3.0000E-01	1.0916E-09	3.1971E-08	6.2855E-03	3.6972E+00	6.0099E+02	4.8651E+01	7.1058E+03
3.1000E-01	1.0432E-09	3.2275E-08	6.3855E-03	3.7485E+00	6.0989E+02	4.7343E+01	6.7865E+03
3.2000E-01	9.9451E-10	3.2557E-08	6.4524E-03	3.7961E+00	6.1866E+02	4.6168E+01	6.5084E+03
3.3000E-01	9.4511E-10	3.2818E-08	6.5294E-03	3.8420E+00	6.2486E+02	4.5104E+01	6.2652E+03
3.4000E-01	8.9227E-10	3.3060E-08	6.6007E-03	3.8810E+00	6.3154E+02	4.4139E+01	6.0513E+03
3.5000E-01	8.3711E-10	3.3284E-08	6.6689E-03	3.9189E+00	6.3773E+02	4.3260E+01	5.8624E+03
3.6000E-01	7.8443E-10	3.3492E-08	6.7282E-03	3.9541E+00	6.4348E+02	4.2457E+01	5.6948E+03
3.7000E-01	7.3590E-10	3.3685E-08	6.7850E-03	3.9867E+00	6.4880E+02	4.1722E+01	5.5454E+03
3.8000E-01	6.9574E-10	3.3864E-08	6.8378E-03	4.0169E+00	6.5374E+02	4.1048E+01	5.4117E+03
3.9000E-01	6.6176E-10	3.4030E-08	6.8867E-03	4.0449E+00	6.5832E+02	4.0429E+01	5.2915E+03
4.0000E-01	6.3327E-10	3.4185E-08	6.9320E-03	4.0710E+00	6.6257E+02	3.9861E+01	5.1832E+03
4.1000E-01	6.0957E-10	3.4328E-08	6.9741E-03	4.0951E+00	6.6651E+02	3.9336E+01	5.0852E+03
4.2000E-01	5.9030E-10	3.4461E-08	7.0132E-03	4.1175E+00	6.7016E+02	3.8857E+01	4.9963E+03
4.3000E-01	5.7419E-10	3.4584E-08	7.0494E-03	4.1383E+00	6.7356E+02	3.8415E+01	4.9155E+03
4.4000E-01	5.6096E-10	3.4699E-08	7.0830E-03	4.1575E+00	6.7671E+02	3.8009E+01	4.8419E+03
4.5000E-01	5.4986E-10	3.4806E-08	7.1142E-03	4.1754E+00	6.7963E+02	3.7634E+01	4.7747E+03
4.6000E-01	5.4064E-10	3.4905E-08	7.1432E-03	4.1921E+00	6.8235E+02	3.7290E+01	4.7134E+03
4.7000E-01	5.3220E-10	3.4997E-08	7.1701E-03	4.2075E+00	6.8497E+02	3.6974E+01	4.6573E+03

4. 8000E-01 7. 1448E-10 3. 5082E-08 7. 1951E-03 4. 2218E+00 6. 8721E+02 3. 6683E+01 4. 6059E+03  
4. 9000E-01 7. 0741E-10 3. 5182E-08 7. 2189E-03 4. 2351E+00 6. 6939E+02 3. 6417E+01 4. 5589E+03  
5. 0000E-01 7. 0083E-10 3. 5286E-08 7. 2399E-03 4. 2475E+00 6. 9141E+02 3. 6172E+01 4. 5158E+03  
5. 1000E-01 6. 9500E-10 3. 5306E-08 7. 2600E-03 4. 2590E+00 6. 9329E+02 3. 5947E+01 4. 4763E+03  
5. 2000E-01 6. 8956E-10 3. 5370E-08 7. 2787E-03 4. 2698E+00 6. 9504E+02 3. 5741E+01 4. 4401E+03  
5. 3000E-01 6. 8457E-10 3. 5431E-08 7. 2961E-03 4. 2797E+00 6. 9687E+02 3. 5552E+01 4. 4069E+03  
5. 4000E-01 6. 8000E-10 3. 5487E-08 7. 3129E-03 4. 2890E+00 6. 9819E+02 3. 5380E+01 4. 3765E+03  
5. 5000E-01 6. 7582E-10 3. 5540E-08 7. 3274E-03 4. 2977E+00 6. 9960E+02 3. 5222E+01 4. 3486E+03  
5. 6000E-01 6. 7199E-10 3. 5590E-08 7. 3415E-03 4. 3058E+00 7. 0093E+02 3. 5079E+01 4. 3231E+03  
5. 7000E-01 6. 6849E-10 3. 5637E-08 7. 3546E-03 4. 3134E+00 7. 0218E+02 3. 4948E+01 4. 2986E+03  
5. 8000E-01 6. 6529E-10 3. 5680E-08 7. 3669E-03 4. 3204E+00 7. 0332E+02 3. 4828E+01 4. 2765E+03  
5. 9000E-01 6. 6237E-10 3. 5722E-08 7. 3785E-03 4. 3271E+00 7. 0440E+02 3. 4720E+01 4. 2590E+03  
6. 0000E-01 6. 5970E-10 3. 5761E-08 7. 3893E-03 4. 3333E+00 7. 0542E+02 3. 4621E+01 4. 2412E+03  
6. 1000E-01 6. 5727E-10 3. 5798E-08 7. 3994E-03 4. 3391E+00 7. 0637E+02 3. 4532E+01 4. 2250E+03  
6. 2000E-01 6. 5506E-10 3. 5833E-08 7. 4090E-03 4. 3446E+00 7. 0721E+02 3. 4452E+01 4. 2103E+03  
6. 3000E-01 6. 5305E-10 3. 5866E-08 7. 4180E-03 4. 3498E+00 7. 0811E+02 3. 4379E+01 4. 1969E+03  
6. 4000E-01 6. 5122E-10 3. 5898E-08 7. 4268E-03 4. 3547E+00 7. 0899E+02 3. 4313E+01 4. 1847E+03  
6. 5000E-01 6. 4957E-10 3. 5929E-08 7. 4345E-03 4. 3593E+00 7. 0966E+02 3. 4255E+01 4. 1737E+03  
6. 6000E-01 6. 4808E-10 3. 5957E-08 7. 4420E-03 4. 3637E+00 7. 1038E+02 3. 4202E+01 4. 1637E+03  
6. 7000E-01 6. 4673E-10 3. 5985E-08 7. 4492E-03 4. 3679E+00 7. 1108E+02 3. 4155E+01 4. 1547E+03  
6. 8000E-01 6. 4551E-10 3. 6011E-08 7. 4561E-03 4. 3718E+00 7. 1170E+02 3. 4113E+01 4. 1466E+03  
6. 9000E-01 6. 4442E-10 3. 6037E-08 7. 4626E-03 4. 3756E+00 7. 1232E+02 3. 4076E+01 4. 1393E+03  
7. 0000E-01 6. 4344E-10 3. 6061E-08 7. 4688E-03 4. 3792E+00 7. 1290E+02 3. 4043E+01 4. 1327E+03  
7. 1000E-01 6. 4257E-10 3. 6085E-08 7. 4748E-03 4. 3826E+00 7. 1347E+02 3. 4014E+01 4. 1268E+03  
7. 2000E-01 6. 4179E-10 3. 6108E-08 7. 4805E-03 4. 3859E+00 7. 1400E+02 3. 3989E+01 4. 1212E+03  
7. 3000E-01 6. 4110E-10 3. 6130E-08 7. 4858E-03 4. 3891E+00 7. 1452E+02 3. 3967E+01 4. 1170E+03  
7. 4000E-01 6. 4048E-10 3. 6152E-08 7. 4912E-03 4. 3921E+00 7. 1502E+02 3. 3948E+01 4. 1128E+03  
7. 5000E-01 6. 3995E-10 3. 6173E-08 7. 4963E-03 4. 3951E+00 7. 1550E+02 3. 3932E+01 4. 1092E+03  
7. 6000E-01 6. 3947E-10 3. 6193E-08 7. 5012E-03 4. 3979E+00 7. 1596E+02 3. 3918E+01 4. 1060E+03  
7. 7000E-01 6. 3906E-10 3. 6213E-08 7. 5059E-03 4. 4007E+00 7. 1641E+02 3. 3906E+01 4. 1032E+03  
7. 8000E-01 6. 3870E-10 3. 6232E-08 7. 5105E-03 4. 4033E+00 7. 1684E+02 3. 3896E+01 4. 1008E+03  
7. 9000E-01 6. 3840E-10 3. 6251E-08 7. 5149E-03 4. 4059E+00 7. 1727E+02 3. 3888E+01 4. 987E+03  
8. 0000E-01 6. 3814E-10 3. 6270E-08 7. 5193E-03 4. 4084E+00 7. 1769E+02 3. 3882E+01 4. 969E+03  
8. 1000E-01 6. 3791E-10 3. 6288E-08 7. 5235E-03 4. 4109E+00 7. 1808E+02 3. 3877E+01 4. 954E+03  
8. 2000E-01 6. 3773E-10 3. 6306E-08 7. 5276E-03 4. 4133E+00 7. 1846E+02 3. 3874E+01 4. 941E+03  
8. 3000E-01 6. 3758E-10 3. 6324E-08 7. 5318E-03 4. 4156E+00 7. 1884E+02 3. 3871E+01 4. 930E+03  
8. 4000E-01 6. 3746E-10 3. 6341E-08 7. 5355E-03 4. 4178E+00 7. 1927E+02 3. 3870E+01 4. 922E+03  
8. 5000E-01 6. 3737E-10 3. 6358E-08 7. 5393E-03 4. 4201E+00 7. 1994E+02 3. 3869E+01 4. 915E+03  
8. 6000E-01 6. 3730E-10 3. 6374E-08 7. 5431E-03 4. 4244E+00 7. 2028E+02 3. 3870E+01 4. 909E+03  
8. 7000E-01 6. 3725E-10 3. 6390E-08 7. 5468E-03 4. 4285E+00 7. 2063E+02 3. 3871E+01 4. 904E+03  
8. 8000E-01 6. 3722E-10 3. 6406E-08 7. 5504E-03 4. 4285E+00 7. 2096E+02 3. 3873E+01 4. 8992E+03  
8. 9000E-01 6. 3721E-10 3. 6422E-08 7. 5539E-03 4. 4286E+00 7. 2129E+02 3. 3875E+01 4. 8947E+03  
9. 0000E-01 6. 3721E-10 3. 6438E-08 7. 5574E-03 4. 4306E+00 7. 2162E+02 3. 3878E+01 4. 8902E+03  
9. 1000E-01 6. 3722E-10 3. 6453E-08 7. 5608E-03 4. 4326E+00 7. 2193E+02 3. 3881E+01 4. 8857E+03  
9. 2000E-01 6. 3725E-10 3. 6468E-08 7. 5641E-03 4. 4346E+00 7. 2225E+02 3. 3884E+01 4. 8813E+03  
9. 3000E-01 6. 3728E-10 3. 6483E-08 7. 5674E-03 4. 4365E+00 7. 2255E+02 3. 3887E+01 4. 877E+03  
9. 4000E-01 6. 3732E-10 3. 6497E-08 7. 5706E-03 4. 4384E+00 7. 2286E+02 3. 3891E+01 4. 873E+03  
9. 5000E-01 6. 3737E-10 3. 6512E-08 7. 5738E-03 4. 4402E+00 7. 2315E+02 3. 3894E+01 4. 8691E+03  
9. 6000E-01 6. 3742E-10 3. 6526E-08 7. 5770E-03 4. 4421E+00 7. 2345E+02 3. 3898E+01 4. 8649E+03  
9. 7000E-01 6. 3748E-10 3. 6540E-08 7. 5800E-03 4. 4438E+00 7. 2373E+02 3. 3901E+01 4. 861E+03  
9. 8000E-01 6. 3754E-10 3. 6553E-08 7. 5831E-03 4. 4456E+00 7. 2402E+02 3. 3905E+01 4. 857E+03  
9. 9000E-01 6. 3760E-10 3. 6567E-08 7. 5860E-03 4. 4473E+00 7. 2429E+02 3. 3908E+01 4. 8527E+03  
1. 0000E+00 6. 3767E-10 3. 6580E-08 7. 5890E-03 4. 4491E+00 7. 2429E+02 3. 3908E+01 4. 8527E+03



ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0000E+01	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E-02	2.1733E+02	1.0313E+00	5.0481E-09	1.0000E+01	2.5600E+01	3.1640E+02	1.7140E+02
2.0000E-02	2.8466E+02	3.6406E+00	4.5659E-08	1.0000E+01	3.206E-05	7.0384E-07	-6.0841E-05
3.0000E-02	2.7655E+02	6.4797E+00	1.3308E-07	1.0000E+01	3.1318E-05	1.0259E-06	-4.8194E-05
4.0000E-02	2.4802E+02	9.1070E+00	2.8328E-07	1.0000E+01	3.0102E-05	1.3325E-06	-3.6095E-05
5.0000E-02	2.2083E+02	1.1446E+01	4.2841E-07	1.0000E+01	2.9386E-05	1.6206E-06	-2.5371E-05
6.0000E-02	2.0112E+02	1.3549E+01	6.2124E-07	1.0000E+01	2.8932E-05	1.9211E-06	-1.8315E-05
7.0000E-02	1.8683E+02	1.5493E+01	8.3627E-07	1.0000E+01	2.8552E-05	2.2085E-06	-8.9442E-06
8.0000E-02	1.7835E+02	1.7344E+01	1.0897E-06	1.0000E+01	2.8129E-05	2.4920E-06	-3.1228E-06
9.0000E-02	1.7574E+02	1.9143E+01	1.3190E-06	1.0000E+01	2.7592E-05	2.7707E-06	1.3475E-06
1.0000E-01	1.7541E+02	2.0913E+01	1.5823E-06	1.0000E+01	2.6912E-05	3.0434E-06	4.6796E-06
1.2000E-01	1.7291E+02	2.2687E+01	1.8581E-06	1.0000E+01	2.6094E-05	3.3086E-06	7.0763E-06
1.4000E-01	1.6878E+02	2.4367E+01	2.1451E-06	1.0000E+01	2.5137E-05	3.5648E-06	8.7195E-06
1.6000E-01	1.6283E+02	2.6026E+01	2.4416E-06	1.0000E+01	2.4068E-05	3.8109E-06	9.7672E-06
1.8000E-01	1.5500E+02	2.7617E+01	2.7461E-06	1.0000E+01	2.2911E-05	4.0459E-06	1.0354E-05
2.0000E-01	1.4551E+02	2.9121E+01	3.0564E-06	1.0000E+01	2.1697E-05	4.2690E-06	1.0591E-05
2.2000E-01	1.3479E+02	3.0523E+01	3.3705E-06	1.0000E+01	2.0454E-05	4.4797E-06	1.0571E-05
2.4000E-01	1.2335E+02	3.1814E+01	3.6862E-06	1.0000E+01	1.9209E-05	4.6780E-06	1.0369E-05
2.6000E-01	1.1167E+02	3.2989E+01	4.0013E-06	1.0000E+01	1.7983E-05	4.8640E-06	1.0043E-05
2.8000E-01	9.9180E+01	3.4048E+01	4.3139E-06	1.0000E+01	1.6796E-05	5.0378E-06	9.6391E-06
3.0000E-01	8.7892E+01	3.4994E+01	4.6221E-06	1.0000E+01	1.5660E-05	5.2001E-06	9.1915E-06
3.2000E-01	7.8925E+01	3.5834E+01	4.9241E-06	1.0000E+01	1.4583E-05	5.3512E-06	8.7255E-06
3.4000E-01	6.9539E+01	3.6576E+01	5.2187E-06	1.0000E+01	1.3572E-05	5.4919E-06	8.2659E-06
3.6000E-01	6.1077E+01	3.7228E+01	5.5047E-06	1.0000E+01	1.2627E-05	5.6229E-06	7.8036E-06
3.8000E-01	5.3538E+01	3.7800E+01	5.7812E-06	1.0000E+01	1.1748E-05	5.7447E-06	7.3673E-06
4.0000E-01	4.6881E+01	3.8302E+01	6.0475E-06	1.0000E+01	1.0934E-05	5.8581E-06	6.9542E-06
4.2000E-01	4.1042E+01	3.8741E+01	6.3032E-06	1.0000E+01	1.0182E-05	5.9638E-06	6.5666E-06
4.4000E-01	3.5941E+01	3.9125E+01	6.5480E-06	1.0000E+01	9.4887E-06	6.0619E-06	6.2049E-06
4.6000E-01	3.1495E+01	3.9452E+01	6.7815E-06	1.0000E+01	8.8451E-06	6.1535E-06	5.8688E-06
4.8000E-01	2.7622E+01	3.9757E+01	7.0044E-06	1.0000E+01	8.2324E-06	6.2390E-06	5.5571E-06
5.0000E-01	2.4266E+01	4.0016E+01	7.2161E-06	1.0000E+01	7.6698E-06	6.3187E-06	5.2684E-06
5.2000E-01	2.1299E+01	4.0243E+01	7.4175E-06	1.0000E+01	7.2025E-06	6.3932E-06	5.0013E-06
5.4000E-01	1.8718E+01	4.0433E+01	7.6075E-06	1.0000E+01	6.7367E-06	6.4629E-06	4.7541E-06
5.6000E-01	1.6450E+01	4.0619E+01	7.7877E-06	1.0000E+01	6.3061E-06	6.5281E-06	4.5254E-06
5.8000E-01	1.4506E+01	4.0773E+01	7.9579E-06	1.0000E+01	5.9081E-06	6.5891E-06	4.3136E-06
6.0000E-01	1.2879E+01	4.0908E+01	8.1186E-06	1.0000E+01	5.5398E-06	6.6463E-06	4.1176E-06
6.2000E-01	1.1105E+01	4.1027E+01	8.2701E-06	1.0000E+01	5.1990E-06	6.7000E-06	3.9359E-06
6.4000E-01	9.6988E+00	4.1131E+01	8.4128E-06	1.0000E+01	4.8834E-06	6.7504E-06	3.7677E-06
6.6000E-01	8.4911E+00	4.1222E+01	8.5470E-06	1.0000E+01	4.5912E-06	6.7978E-06	3.6117E-06
6.8000E-01	7.3097E+00	4.1300E+01	8.6731E-06	1.0000E+01	4.3204E-06	6.8423E-06	3.4671E-06
7.0000E-01	6.2897E+00	4.1368E+01	8.7918E-06	1.0000E+01	4.0695E-06	6.8842E-06	3.3232E-06
7.2000E-01	5.3677E+00	4.1426E+01	8.9027E-06	1.0000E+01	3.8370E-06	6.9238E-06	3.1893E-06
7.4000E-01	4.5377E+00	4.1476E+01	9.0069E-06	1.0000E+01	3.6215E-06	6.9610E-06	3.0698E-06
7.6000E-01	3.7750E+00	4.1517E+01	9.1044E-06	1.0000E+01	3.4171E-06	6.9962E-06	2.9671E-06
7.8000E-01	3.0688E+00	4.1557E+01	9.1957E-06	1.0000E+01	3.2365E-06	7.0295E-06	2.8871E-06
8.0000E-01	2.4612E+00	4.1595E+01	9.2810E-06	1.0000E+01	3.0647E-06	7.0610E-06	2.7964E-06
8.2000E-01	1.8922E+00	4.1631E+01	9.3606E-06	1.0000E+01	2.9054E-06	7.0909E-06	2.7114E-06
8.4000E-01	1.3748E+00	4.1617E+01	9.4349E-06	1.0000E+01	2.7577E-06	7.1192E-06	2.6326E-06

4.8000E-01	9.0444E-01	4.1629E+01	9.5042E-06	1.0000E+01	2.6206E-08	7.1460E-06	2.5595E-08
4.9000E-01	4.7792E-01	4.1635E+01	9.5687E-06	1.0000E+01	2.4934E-06	7.1716E-06	2.4917E-06
5.0000E-01	8.9818E-02	4.1638E+01	9.6288E+01	1.0000E+01	2.3753E-08	7.1959E-06	2.4789E-06
5.1000E-01	-2.6109E-01	4.1637E+01	9.6843E-06	1.0000E+01	2.2656E-08	7.2191E-06	2.3705E-06
5.2000E-01	-5.7824E-01	4.1633E+01	9.7360E-08	1.0000E+01	2.1637E-08	7.2413E-06	2.3165E-06
5.3000E-01	-8.6417E-01	4.1626E+01	9.7839E-08	1.0000E+01	2.0890E-08	7.2624E-06	2.2662E-06
5.4000E-01	-1.1212E+00	4.1616E+01	9.8282E-06	1.0000E+01	1.9695E-08	7.2827E-06	2.2195E-06
5.5000E-01	-1.3515E+00	4.1604E+01	9.8692E-06	1.0000E+01	1.8590E-08	7.3021E-06	2.1761E-06
5.6000E-01	-1.5569E+00	4.1589E+01	9.9070E-06	1.0000E+01	1.8226E-08	7.3207E-06	2.1358E-06
5.7000E-01	-1.7394E+00	4.1573E+01	9.9418E-06	1.0000E+01	1.7515E-08	7.3385E-06	2.0982E-06
5.8000E-01	-1.9005E+00	4.1554E+01	9.9738E-06	1.0000E+01	1.6850E-08	7.3557E-06	2.0631E-06
5.9000E-01	-2.0418E+00	4.1535E+01	1.0003E-05	1.0000E+01	1.6230E-08	7.3723E-06	2.0304E-06
6.0000E-01	-2.1648E+00	4.1514E+01	1.0030E-05	1.0000E+01	1.5650E-08	7.3882E-06	1.9998E-06
6.1000E-01	-2.2709E+00	4.1491E+01	1.0055E-05	1.0000E+01	1.5107E-08	7.4036E-06	1.9712E-06
6.2000E-01	-2.3612E+00	4.1469E+01	1.0077E-05	1.0000E+01	1.4598E-08	7.4184E-06	1.9444E-06
6.3000E-01	-2.4370E+00	4.1444E+01	1.0098E-05	1.0000E+01	1.4120E-08	7.4328E-06	1.9193E-06
6.4000E-01	-2.4995E+00	4.1419E+01	1.0116E-05	1.0000E+01	1.3670E-08	7.4467E-06	1.8957E-06
6.5000E-01	-2.5495E+00	4.1394E+01	1.0133E-05	1.0000E+01	1.3247E-08	7.4601E-06	1.8734E-06
6.6000E-01	-2.5892E+00	4.1369E+01	1.0148E-05	1.0000E+01	1.2847E-08	7.4732E-06	1.8524E-06
6.7000E-01	-2.6155E+00	4.1343E+01	1.0162E-05	1.0000E+01	1.2469E-08	7.4858E-06	1.8325E-06
6.8000E-01	-2.6351E+00	4.1316E+01	1.0174E-05	1.0000E+01	1.2111E-08	7.4981E-06	1.8137E-06
6.9000E-01	-2.6450E+00	4.1290E+01	1.0185E-05	1.0000E+01	1.1772E-08	7.5101E-06	1.7959E-06
7.0000E-01	-2.6469E+00	4.1263E+01	1.0194E-05	1.0000E+01	1.1449E-08	7.5217E-06	1.7789E-06
7.1000E-01	-2.6414E+00	4.1237E+01	1.0203E-05	1.0000E+01	1.1142E-08	7.5330E-06	1.7627E-06
7.2000E-01	-2.6293E+00	4.1211E+01	1.0210E-05	1.0000E+01	1.0846E-08	7.5440E-06	1.7472E-06
7.3000E-01	-2.6112E+00	4.1184E+01	1.0217E-05	1.0000E+01	1.0568E-08	7.5547E-06	1.7324E-06
7.4000E-01	-2.5876E+00	4.1158E+01	1.0222E-05	1.0000E+01	1.0298E-08	7.5651E-06	1.7182E-06
7.5000E-01	-2.5592E+00	4.1133E+01	1.0227E-05	1.0000E+01	1.0040E-08	7.5753E-06	1.7045E-06
7.6000E-01	-2.5284E+00	4.1107E+01	1.0230E-05	1.0000E+01	9.7919E-07	7.5852E-06	1.6913E-06
7.7000E-01	-2.4897E+00	4.1082E+01	1.0233E-05	1.0000E+01	9.5523E-07	7.5949E-06	1.6786E-06
7.8000E-01	-2.4486E+00	4.1057E+01	1.0238E-05	1.0000E+01	9.3209E-07	7.6043E-06	1.6663E-06
7.9000E-01	-2.4084E+00	4.1033E+01	1.0239E-05	1.0000E+01	9.0971E-07	7.6135E-06	1.6543E-06
8.0000E-01	-2.3606E+00	4.1009E+01	1.0240E-05	1.0000E+01	8.8802E-07	7.6225E-06	1.6427E-06
8.1000E-01	-2.3125E+00	4.0986E+01	1.0240E-05	1.0000E+01	8.6696E-07	7.6313E-06	1.6315E-06
8.2000E-01	-2.2624E+00	4.0963E+01	1.0240E-05	1.0000E+01	8.4649E-07	7.6398E-06	1.6205E-06
8.3000E-01	-2.2107E+00	4.0941E+01	1.0240E-05	1.0000E+01	8.2656E-07	7.6482E-06	1.6097E-06
8.4000E-01	-2.1577E+00	4.0899E+01	1.0239E-05	1.0000E+01	8.0713E-07	7.6564E-06	1.5993E-06
8.5000E-01	-2.1035E+00	4.0877E+01	1.0238E-05	1.0000E+01	7.8817E-07	7.6643E-06	1.5890E-06
8.6000E-01	-2.0485E+00	4.0857E+01	1.0237E-05	1.0000E+01	7.6985E-07	7.6721E-06	1.5790E-06
8.7000E-01	-1.9929E+00	4.0837E+01	1.0236E-05	1.0000E+01	7.5153E-07	7.6797E-06	1.5692E-06
8.8000E-01	-1.9368E+00	4.0818E+01	1.0234E-05	1.0000E+01	7.3379E-07	7.6872E-06	1.5595E-06
8.9000E-01	-1.8806E+00	4.0799E+01	1.0232E-05	1.0000E+01	7.1641E-07	7.6944E-06	1.5501E-06
9.0000E-01	-1.8242E+00	4.0781E+01	1.0230E-05	1.0000E+01	6.9937E-07	7.7015E-06	1.5408E-06
9.1000E-01	-1.7679E+00	4.0764E+01	1.0228E-05	1.0000E+01	6.8265E-07	7.7084E-06	1.5316E-06
9.2000E-01	-1.7119E+00	4.0747E+01	1.0225E-05	1.0000E+01	6.6624E-07	7.7151E-06	1.5226E-06
9.3000E-01	-1.6563E+00	4.0729E+01	1.0223E-05	1.0000E+01	6.5012E-07	7.7217E-06	1.5138E-06
9.4000E-01	-1.6011E+00	4.0711E+01	1.0220E-05	1.0000E+01	6.3428E-07	7.7281E-06	1.5051E-06
9.5000E-01	-1.5465E+00	4.0715E+01	1.0217E-05	1.0000E+01	6.1872E-07	7.7344E-06	1.4965E-06
9.6000E-01	-1.4927E+00	4.0700E+01	1.0214E-05	1.0000E+01	6.0341E-07	7.7405E-06	1.4880E-06
9.7000E-01	-1.4395E+00	4.0685E+01	1.0211E-05	1.0000E+01	5.8837E-07	7.7465E-06	1.4797E-06
9.8000E-01	-1.3873E+00	4.0671E+01	1.0208E-05	1.0000E+01	5.7357E-07	7.7523E-06	1.4715E-06
9.9000E-01	-1.3359E+00	4.0657E+01	1.0205E-05	1.0000E+01	5.5902E-07	7.7579E-06	1.4635E-06
1.0000E+00	-1.2855E+00	4.0644E+01	1.0202E-05	1.0000E+01	5.4471E-07	7.7635E-06	1.4555E-06

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE
0.000E+00	0.000E+00	0.000E+00	3.100E+02	0.000E+00	3.560E+03
1.000E-01	-8.766E+01	-4.590E+03	2.9797E+02	1.9758E+01	3.560E+03
2.000E-02	-1.1478E+02	-6.3407E+03	2.7019E+02	6.3248E+01	3.560E+03
3.000E-02	-1.1233E+02	-6.3437E+03	2.3842E+02	9.9504E+01	3.560E+03
4.000E-02	-8.689E+01	-5.5276E+03	2.0980E+02	1.2285E+02	3.560E+03
5.000E-02	-7.698E+01	-4.4255E+03	1.8555E+02	1.5656E+02	3.560E+03
6.000E-02	-5.694E+01	-3.2680E+03	1.6874E+02	1.4525E+02	3.560E+03
7.000E-02	-2.8807E+01	-2.2691E+03	1.5214E+02	1.2755E+02	3.560E+03
8.000E-02	-2.374E+01	-1.3889E+03	1.4143E+02	1.2074E+02	3.560E+03
9.000E-02	-8.760E+01	-9.899E+02	1.3886E+02	1.7104E+02	3.560E+03
1.000E-01	6.6863E+00	3.3686E+02	1.3718E+02	1.981E+02	3.560E+03
1.200E-01	1.2259E+01	6.5925E+02	1.3925E+02	2.1817E+02	3.560E+03
1.300E-01	1.6194E+01	8.8808E+02	1.4265E+02	2.3972E+02	3.560E+03
1.400E-01	1.8815E+01	1.0415E+03	1.4694E+02	2.6092E+02	3.560E+03
1.500E-01	2.0402E+01	1.1356E+03	1.5180E+02	2.8424E+02	3.560E+03
1.600E-01	2.1194E+01	1.1839E+03	1.5699E+02	3.0810E+02	3.560E+03
1.700E-01	2.1392E+01	1.1979E+03	1.6230E+02	3.3202E+02	3.560E+03
1.800E-01	2.1158E+01	1.1869E+03	1.6781E+02	3.5555E+02	3.560E+03
1.900E-01	2.0624E+01	1.1584E+03	1.7282E+02	3.7834E+02	3.560E+03
2.000E-01	1.9891E+01	1.1183E+03	1.7784E+02	4.0016E+02	3.560E+03
2.100E-01	1.9038E+01	1.0711E+03	1.8284E+02	4.2083E+02	3.560E+03
2.200E-01	1.8124E+01	1.0201E+03	1.8720E+02	4.4025E+02	3.560E+03
2.300E-01	1.7190E+01	9.6786E+02	1.9149E+02	4.5839E+02	3.560E+03
2.400E-01	1.6266E+01	9.1603E+02	1.9553E+02	4.7526E+02	3.560E+03
2.500E-01	1.5372E+01	8.6575E+02	1.9932E+02	4.9089E+02	3.560E+03
2.600E-01	1.4519E+01	8.1774E+02	2.0286E+02	5.0534E+02	3.560E+03
2.700E-01	1.371E+01	7.7239E+02	2.0619E+02	5.1869E+02	3.560E+03
2.800E-01	1.2960E+01	7.2988E+02	2.0927E+02	5.3101E+02	3.560E+03
2.900E-01	1.2257E+01	6.9024E+02	2.1217E+02	5.4237E+02	3.560E+03
3.000E-01	1.1604E+01	6.5340E+02	2.1487E+02	5.5286E+02	3.560E+03
3.100E-01	1.0999E+01	6.1922E+02	2.1740E+02	5.6255E+02	3.560E+03
3.200E-01	1.0439E+01	5.8757E+02	2.1976E+02	5.7149E+02	3.560E+03
3.300E-01	9.9185E+00	5.5826E+02	2.2198E+02	5.7976E+02	3.560E+03
3.400E-01	9.4378E+00	5.3113E+02	2.2405E+02	5.8740E+02	3.560E+03
3.500E-01	8.9927E+00	5.0601E+02	2.2600E+02	5.9447E+02	3.560E+03
3.600E-01	8.5808E+00	4.8275E+02	2.2783E+02	6.0102E+02	3.560E+03
3.700E-01	8.1989E+00	4.6121E+02	2.2954E+02	6.0708E+02	3.560E+03
3.800E-01	7.8453E+00	4.4126E+02	2.3116E+02	6.1269E+02	3.560E+03
3.900E-01	7.5178E+00	4.2276E+02	2.3247E+02	6.1789E+02	3.560E+03
4.000E-01	7.2139E+00	4.0563E+02	2.3410E+02	6.2270E+02	3.560E+03
4.100E-01	6.9324E+00	3.8974E+02	2.3545E+02	6.2717E+02	3.560E+03
4.200E-01	6.6715E+00	3.7502E+02	2.3632E+02	6.3131E+02	3.560E+03
4.300E-01	6.4296E+00	3.6137E+02	2.3722E+02	6.3514E+02	3.560E+03
4.400E-01	6.2054E+00	3.4872E+02	2.3806E+02	6.3870E+02	3.560E+03
4.500E-01	5.9979E+00	3.3699E+02	2.4013E+02	6.4200E+02	3.560E+03
4.600E-01	5.8048E+00	3.2612E+02	2.4115E+02	6.4506E+02	3.560E+03
4.700E-01	5.6262E+00	3.1604E+02	2.4211E+02	6.4789E+02	3.560E+03

3.1000E+02  
1.7140E+00  
1.8500E-06  
5.0000E+00  
3.1640E+02  
8.3283E-09  
8.2600E+01  
5.6000E+04

0.0000E+00  
2.5600E+01  
2.5500E-10  
3.1640E+02  
8.3283E-09  
8.2600E+01  
5.6000E+04

1.0000E+00  
5.3190E+06  
1.7780E-02  
2.5500E-10  
3.1640E+02  
8.3283E-09  
8.2600E+01  
5.6000E+04

1.0000E+00  
1.0000E+06  
5.3190E+06  
1.7780E-02  
2.5500E-10  
3.1640E+02  
8.3283E-09  
8.2600E+01  
5.6000E+04

8.0500E+01  
1.6940E+03  
2.7800E+01  
2.0000E-01  
5.5611E-01  
1.7000E+08  
3.2250E-07  
5.2080E-08

9.0500E+01  
0.0000E+00  
3.3566E+03  
3.6500E-06  
2.3400E-01  
6.4300E-02

7.4254E+05  
5.9000E-04  
2.0000E+03  
4.4000E+00  
4.7700E-01

7.4254E+05  
5.9000E-04  
2.0000E+03  
4.4000E+00  
4.7700E-01

4.8000E-01	5.4607E+00	3.0670E+02	2.4303E+02	6.5053E+02	3.5600E+03
4.9000E-01	5.3071E+00	2.9803E+02	2.4390E+02	6.5297E+02	3.5600E+03
5.0000E-01	5.1648E+00	2.9000E+02	2.4473E+02	6.5524E+02	3.5600E+03
5.1000E-01	5.0328E+00	2.8255E+02	2.4553E+02	6.5734E+02	3.5600E+03
5.2000E-01	4.9103E+00	2.7564E+02	2.4628E+02	6.5930E+02	3.5600E+03
5.3000E-01	4.7967E+00	2.6923E+02	2.4700E+02	6.6112E+02	3.5600E+03
5.4000E-01	4.6911E+00	2.6328E+02	2.4769E+02	6.6281E+02	3.5600E+03
5.5000E-01	4.5931E+00	2.5775E+02	2.4836E+02	6.6438E+02	3.5600E+03
5.6000E-01	4.5020E+00	2.5261E+02	2.4899E+02	6.6585E+02	3.5600E+03
5.7000E-01	4.4172E+00	2.4782E+02	2.4960E+02	6.6721E+02	3.5600E+03
5.8000E-01	4.3383E+00	2.4332E+02	2.5018E+02	6.6849E+02	3.5600E+03
5.9000E-01	4.2647E+00	2.3936E+02	2.5075E+02	6.6968E+02	3.5600E+03
6.0000E-01	4.1961E+00	2.3536E+02	2.5130E+02	6.7079E+02	3.5600E+03
6.1000E-01	4.1320E+00	2.3174E+02	2.5182E+02	6.7184E+02	3.5600E+03
6.2000E-01	4.0721E+00	2.2836E+02	2.5233E+02	6.7282E+02	3.5600E+03
6.3000E-01	4.0159E+00	2.2520E+02	2.5282E+02	6.7373E+02	3.5600E+03
6.4000E-01	3.9633E+00	2.2232E+02	2.5330E+02	6.7461E+02	3.5600E+03
6.5000E-01	3.9138E+00	2.1944E+02	2.5376E+02	6.7541E+02	3.5600E+03
6.6000E-01	3.8672E+00	2.1682E+02	2.5420E+02	6.7618E+02	3.5600E+03
6.7000E-01	3.8233E+00	2.1434E+02	2.5464E+02	6.7690E+02	3.5600E+03
6.8000E-01	3.7817E+00	2.1200E+02	2.5506E+02	6.7759E+02	3.5600E+03
6.9000E-01	3.7424E+00	2.0979E+02	2.5546E+02	6.7826E+02	3.5600E+03
7.0000E-01	3.7051E+00	2.0769E+02	2.5586E+02	6.7885E+02	3.5600E+03
7.1000E-01	3.6697E+00	2.0570E+02	2.5625E+02	6.7945E+02	3.5600E+03
7.2000E-01	3.6360E+00	2.0380E+02	2.5662E+02	6.8001E+02	3.5600E+03
7.3000E-01	3.6036E+00	2.0198E+02	2.5697E+02	6.8055E+02	3.5600E+03
7.4000E-01	3.5730E+00	2.0025E+02	2.5735E+02	6.8107E+02	3.5600E+03
7.5000E-01	3.5432E+00	1.9858E+02	2.5770E+02	6.8157E+02	3.5600E+03
7.6000E-01	3.5147E+00	1.9698E+02	2.5804E+02	6.8204E+02	3.5600E+03
7.7000E-01	3.4873E+00	1.9544E+02	2.5837E+02	6.8250E+02	3.5600E+03
7.8000E-01	3.4608E+00	1.9395E+02	2.5869E+02	6.8295E+02	3.5600E+03
7.9000E-01	3.4353E+00	1.9252E+02	2.5901E+02	6.8338E+02	3.5600E+03
8.0000E-01	3.4105E+00	1.9112E+02	2.5932E+02	6.8379E+02	3.5600E+03
8.1000E-01	3.3864E+00	1.8977E+02	2.5962E+02	6.8420E+02	3.5600E+03
8.2000E-01	3.3630E+00	1.8846E+02	2.5991E+02	6.8459E+02	3.5600E+03
8.3000E-01	3.3403E+00	1.8718E+02	2.6020E+02	6.8497E+02	3.5600E+03
8.4000E-01	3.3180E+00	1.8593E+02	2.6048E+02	6.8535E+02	3.5600E+03
8.5000E-01	3.2964E+00	1.8472E+02	2.6076E+02	6.8571E+02	3.5600E+03
8.6000E-01	3.2752E+00	1.8353E+02	2.6102E+02	6.8607E+02	3.5600E+03
8.7000E-01	3.2544E+00	1.8238E+02	2.6128E+02	6.8641E+02	3.5600E+03
8.8000E-01	3.2341E+00	1.8122E+02	2.6154E+02	6.8676E+02	3.5600E+03
8.9000E-01	3.2141E+00	1.8010E+02	2.6179E+02	6.8709E+02	3.5600E+03
9.0000E-01	3.1945E+00	1.7900E+02	2.6203E+02	6.8742E+02	3.5600E+03
9.1000E-01	3.1753E+00	1.7792E+02	2.6227E+02	6.8774E+02	3.5600E+03
9.2000E-01	3.1564E+00	1.7686E+02	2.6250E+02	6.8805E+02	3.5600E+03
9.3000E-01	3.1378E+00	1.7582E+02	2.6273E+02	6.8836E+02	3.5600E+03
9.4000E-01	3.1195E+00	1.7480E+02	2.6295E+02	6.8867E+02	3.5600E+03
9.5000E-01	3.1015E+00	1.7379E+02	2.6317E+02	6.8896E+02	3.5600E+03
9.6000E-01	3.0838E+00	1.7279E+02	2.6338E+02	6.8926E+02	3.5600E+03
9.7000E-01	3.0664E+00	1.7182E+02	2.6358E+02	6.8955E+02	3.5600E+03
9.8000E-01	3.0492E+00	1.7085E+02	2.6378E+02	6.8983E+02	3.5600E+03
9.9000E-01	3.0323E+00	1.6990E+02	2.6398E+02	6.9011E+02	3.5600E+03
1.0000E+00	3.0156E+00	1.6897E+02	2.6417E+02	6.9039E+02	3.5600E+03

Appendix #18.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.0000E+00	6.0500E+00	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	7.4254E+05	0.0000E+00	1.6940E+03	5.3190E+06	2.5600E+01	3.1640E+02	1.7140E+00
5.9000E-04	5.9000E+00	0.0000E+00	1.9588E-07	1.9248E-03	3.6410E-01	1.7793E+00	1.1186E-08
3.5816E+05	2.2000E+03	3.3568E+03	1.7548E-07	-3.7878E-02	3.6371E-01	1.7807E+00	1.1725E-08
7.4000E+00	2.4000E+00	3.6500E+06	-1.5820E-03	-3.4593E-02	3.6334E-01	1.7821E+00	1.1586E-08
1.0000E+03	4.7700E-01	2.3400E-01	1.4571E-03	-3.1587E-02	3.6301E-01	1.7835E+00	1.1450E-08
			-1.4571E-03	-2.8761E-02	3.6271E-01	1.7848E+00	1.1277E-08
			-1.3528E-07	-2.6109E-02	3.6244E-01	1.7861E+00	1.1054E-08
			-1.2342E-07	-2.3621E-02	3.6219E-01	1.7873E+00	1.0779E-08
			-1.1229E-07	-2.1291E-02	3.6190E-01	1.7885E+00	1.0458E-08
			-1.0185E-07	-1.9109E-02	3.6176E-01	1.7897E+00	1.0096E-08
			-9.2069E-08	-1.7070E-02	3.6159E-01	1.7908E+00	9.6999E-09
			-8.2904E-08	-1.5165E-02	3.6142E-01	1.7919E+00	9.2770E-09
			-7.4328E-08	-1.3388E-02	3.6128E-01	1.7930E+00	8.8326E-09
			-6.6312E-08	-1.1732E-02	3.6115E-01	1.7940E+00	8.3717E-09
			-5.8827E-08	-1.0191E-02	3.6104E-01	1.7950E+00	7.8989E-09
			-5.1847E-08	-8.7428E-03	3.6095E-01	1.7960E+00	7.4179E-09
			-4.5343E-08	-7.4288E-03	3.6087E-01	1.7969E+00	6.9332E-09
			-3.9292E-08	-6.1962E-03	3.6080E-01	1.7978E+00	6.4500E-09
			-3.3669E-08	-5.0553E-03	3.6076E-01	1.7987E+00	5.9587E-09
			-2.8452E-08	-4.0012E-03	3.6066E-01	1.7995E+00	5.4758E-09
			-2.3617E-08	-3.0288E-03	3.6062E-01	1.8003E+00	4.9983E-09
			-1.9145E-08	-2.1937E-03	3.6062E-01	1.8011E+00	4.5279E-09
			-1.5014E-08	-1.4970E-04	3.6062E-01	1.8018E+00	4.0684E-09
			-1.205E-08	-1.0312E-03	3.6062E-01	1.8025E+00	3.6151E-09
			-9.6699E-05	-5.5718E-04	3.6062E-01	1.8032E+00	3.1751E-09
			-7.7004E-09	-1.3244E-04	3.6061E-01	1.8038E+00	2.7476E-09
			-4.4820E-09	7.6153E-04	3.6061E-01	1.8045E+00	2.3333E-09
			-1.5332E-09	1.3338E-03	3.6062E-01	1.8045E+00	1.9330E-09
			-1.1622E-09	1.8527E-03	3.6064E-01	1.8056E+00	1.5472E-09
			-8.6193E-09	2.3215E-03	3.6066E-01	1.8056E+00	1.1765E-09
			-5.8528E-09	2.7435E-03	3.6069E-01	1.8062E+00	8.2109E-10
			-3.78761E-09	3.1217E-03	3.6072E-01	1.8067E+00	4.6129E-10
			-2.1345E-08	3.4590E-03	3.6075E-01	1.8072E+00	1.5732E-10
			-1.1345E-08	3.7579E-03	3.6078E-01	1.8077E+00	1.5732E-10
			1.2816E-08	4.0212E-03	3.6082E-01	1.8081E+00	-1.5163E-10
			1.4125E-08	4.2512E-03	3.6085E-01	1.8086E+00	-4.2393E-10
			1.5264E-08	4.4504E-03	3.6091E-01	1.8090E+00	-7.2022E-10
			1.6303E-08	4.6208E-03	3.6095E-01	1.8094E+00	-9.6138E-10
			1.7191E-08	4.7645E-03	3.6100E-01	1.8098E+00	-1.2227E-09
			1.7958E-08	4.8835E-03	3.6105E-01	1.8101E+00	-1.4578E-09
			1.8612E-08	4.9797E-03	3.6110E-01	1.8105E+00	-1.6735E-09
			1.9162E-08	5.0548E-03	3.6115E-01	1.8108E+00	-1.8747E-09
			1.9614E-08	5.1104E-03	3.6120E-01	1.8111E+00	-2.0614E-09
			1.9978E-08	5.1482E-03	3.6125E-01	1.8114E+00	-2.2342E-09
			2.0258E-08	5.1695E-03	3.6130E-01	1.8117E+00	-2.3939E-09
			2.0462E-08	5.1758E-03	3.6135E-01	1.8119E+00	-2.5406E-09
			2.0597E-08	5.1683E-03	3.6141E-01	1.8122E+00	-2.6747E-09
			2.0667E-08	5.1483E-03	3.6146E-01	1.8124E+00	-2.7966E-09

4.6000E-01	5.0500E+00	2.0678E-08	1.8921E-04	5.1168E-03	3.8151E-01	1.8127E+00	-2.9068E-09
4.7000E-01	5.0500E+00	2.0635E-08	1.8536E-04	5.0751E-03	3.8156E-01	1.8129E+00	-3.0058E-09
4.8000E-01	5.0500E+00	2.0544E-08	1.8910E-04	5.0241E-03	3.8161E-01	1.8131E+00	-3.0939E-09
4.9000E-01	5.0500E+00	2.0408E-08	1.8841E-04	4.9647E-03	3.8166E-01	1.8133E+00	-3.1716E-09
5.0000E-01	5.0500E+00	2.0232E-08	1.8736E-04	4.8978E-03	3.8171E-01	1.8134E+00	-3.2394E-09
5.1000E-01	5.0500E+00	2.0019E-08	1.8597E-04	4.8242E-03	3.8176E-01	1.8136E+00	-3.2977E-09
5.2000E-01	5.0500E+00	1.9774E-08	1.8427E-04	4.7448E-03	3.8181E-01	1.8138E+00	-3.3471E-09
5.3000E-01	5.0500E+00	1.9500E-08	1.8231E-04	4.6602E-03	3.8185E-01	1.8139E+00	-3.3878E-09
5.4000E-01	5.0500E+00	1.9200E-08	1.8010E-04	4.5710E-03	3.8190E-01	1.8141E+00	-3.4205E-09
5.5000E-01	5.0500E+00	1.8878E-08	1.7768E-04	4.4780E-03	3.8194E-01	1.8142E+00	-3.4454E-09
5.6000E-01	5.0500E+00	1.8535E-08	1.5506E-04	4.3817E-03	3.8199E-01	1.8143E+00	-3.4631E-09
5.7000E-01	5.0500E+00	1.8175E-08	1.5228E-04	4.2826E-03	3.8203E-01	1.8144E+00	-3.4739E-09
5.8000E-01	5.0500E+00	1.7800E-08	1.4935E-04	4.1812E-03	3.8207E-01	1.8146E+00	-3.4783E-09
5.9000E-01	5.0500E+00	1.7412E-08	1.4630E-04	4.0780E-03	3.8212E-01	1.8147E+00	-3.4765E-09
6.0000E-01	5.0500E+00	1.7014E-08	1.4314E-04	3.9734E-03	3.8216E-01	1.8148E+00	-3.4694E-09
6.1000E-01	5.0500E+00	1.6607E-08	1.3989E-04	3.8678E-03	3.8219E-01	1.8148E+00	-3.4567E-09
6.2000E-01	5.0500E+00	1.6193E-08	1.3657E-04	3.7615E-03	3.8223E-01	1.8149E+00	-3.4390E-09
6.3000E-01	5.0500E+00	1.5774E-08	1.3318E-04	3.6549E-03	3.8227E-01	1.8150E+00	-3.4167E-09
6.4000E-01	5.0500E+00	1.5351E-08	1.2976E-04	3.5483E-03	3.8231E-01	1.8151E+00	-3.3901E-09
6.5000E-01	5.0500E+00	1.4926E-08	1.2630E-04	3.4418E-03	3.8234E-01	1.8151E+00	-3.3595E-09
6.6000E-01	5.0500E+00	1.4500E-08	1.2282E-04	3.3360E-03	3.8237E-01	1.8152E+00	-3.3255E-09
6.7000E-01	5.0500E+00	1.4074E-08	1.1933E-04	3.2309E-03	3.8241E-01	1.8153E+00	-3.2877E-09
6.8000E-01	5.0500E+00	1.3649E-08	1.1584E-04	3.1287E-03	3.8244E-01	1.8153E+00	-3.2471E-09
6.9000E-01	5.0500E+00	1.3227E-08	1.1236E-04	3.0286E-03	3.8247E-01	1.8154E+00	-3.2037E-09
7.0000E-01	5.0500E+00	1.2806E-08	1.0890E-04	2.9218E-03	3.8250E-01	1.8154E+00	-3.1577E-09
7.1000E-01	5.0500E+00	1.2392E-08	1.0546E-04	2.8144E-03	3.8253E-01	1.8155E+00	-3.1095E-09
7.2000E-01	5.0500E+00	1.1981E-08	1.0205E-04	2.7225E-03	3.8256E-01	1.8155E+00	-3.0592E-09
7.3000E-01	5.0500E+00	1.1576E-08	9.8681E-05	2.6254E-03	3.8258E-01	1.8155E+00	-3.0071E-09
7.4000E-01	5.0500E+00	1.1176E-08	9.5353E-05	2.5300E-03	3.8261E-01	1.8156E+00	-2.9535E-09
7.5000E-01	5.0500E+00	1.0783E-08	9.2071E-05	2.4365E-03	3.8263E-01	1.8156E+00	-2.8984E-09
7.6000E-01	5.0500E+00	1.0397E-08	8.8841E-05	2.3449E-03	3.8266E-01	1.8156E+00	-2.8421E-09
7.7000E-01	5.0500E+00	1.0017E-08	8.5666E-05	2.2554E-03	3.8268E-01	1.8157E+00	-2.7848E-09
7.8000E-01	5.0500E+00	9.6454E-09	8.2550E-05	2.1679E-03	3.8270E-01	1.8157E+00	-2.7266E-09
7.9000E-01	5.0500E+00	9.2815E-09	7.9485E-05	2.0825E-03	3.8272E-01	1.8157E+00	-2.6677E-09
8.0000E-01	5.0500E+00	8.9256E-09	7.6503E-05	1.9992E-03	3.8274E-01	1.8157E+00	-2.6083E-09
8.1000E-01	5.0500E+00	8.5780E-09	7.3577E-05	1.9181E-03	3.8276E-01	1.8157E+00	-2.5485E-09
8.2000E-01	5.0500E+00	8.2389E-09	7.0719E-05	1.8392E-03	3.8278E-01	1.8158E+00	-2.4885E-09
8.3000E-01	5.0500E+00	7.9092E-09	6.7930E-05	1.7625E-03	3.8280E-01	1.8158E+00	-2.4283E-09
8.4000E-01	5.0500E+00	7.5864E-09	6.5211E-05	1.6879E-03	3.8282E-01	1.8158E+00	-2.3681E-09
8.5000E-01	5.0500E+00	7.2732E-09	6.2563E-05	1.6159E-03	3.8283E-01	1.8158E+00	-2.3080E-09
8.6000E-01	5.0500E+00	6.9686E-09	5.9986E-05	1.5455E-03	3.8285E-01	1.8158E+00	-2.2481E-09
8.7000E-01	5.0500E+00	6.6731E-09	5.7481E-05	1.4775E-03	3.8287E-01	1.8158E+00	-2.1885E-09
8.8000E-01	5.0500E+00	6.3863E-09	5.5047E-05	1.4117E-03	3.8288E-01	1.8158E+00	-2.1292E-09
8.9000E-01	5.0500E+00	6.1084E-09	5.2686E-05	1.3480E-03	3.8289E-01	1.8158E+00	-2.0705E-09
9.0000E-01	5.0500E+00	5.8387E-09	5.0396E-05	1.2865E-03	3.8291E-01	1.8158E+00	-2.0122E-09
9.1000E-01	5.0500E+00	5.5779E-09	4.8178E-05	1.2270E-03	3.8292E-01	1.8158E+00	-1.9546E-09
9.2000E-01	5.0500E+00	5.3256E-09	4.6030E-05	1.1696E-03	3.8293E-01	1.8158E+00	-1.8976E-09
9.3000E-01	5.0500E+00	5.0817E-09	4.3952E-05	1.1142E-03	3.8294E-01	1.8158E+00	-1.8414E-09
9.4000E-01	5.0500E+00	4.8461E-09	4.1943E-05	1.0609E-03	3.8295E-01	1.8158E+00	-1.7859E-09
9.5000E-01	5.0500E+00	4.6187E-09	4.0003E-05	1.0094E-03	3.8296E-01	1.8158E+00	-1.7313E-09
9.6000E-01	5.0500E+00	4.3994E-09	3.8130E-05	9.5989E-04	3.8297E-01	1.8158E+00	-1.6775E-09
9.7000E-01	5.0500E+00	4.1880E-09	3.6373E-05	9.1274E-04	3.8298E-01	1.8158E+00	-1.6247E-09
9.8000E-01	5.0500E+00	3.9843E-09	3.4580E-05	8.6642E-04	3.8299E-01	1.8158E+00	-1.5727E-09
9.9000E-01	5.0500E+00	3.7883E-09	3.2902E-05	8.2235E-04	3.8300E-01	1.8158E+00	-1.5217E-09
1.0000E+00	5.0500E+00	3.5997E-09	3.1286E-05	7.8009E-04	3.8301E-01	1.8158E+00	-1.4717E-09

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
0.0000E+00	6.3767E-10	3.6580E-08	7.5890E-03	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.0000E-02	6.3774E-10	3.6593E-08	7.5891E-03	4.4491E+00	7.2429E+02	3.1640E+02	1.7140E+03
2.0000E-02	6.3781E-10	3.6605E-08	7.5947E-03	4.4507E+00	7.2484E+02	3.3915E+01	4.0931E+03
3.0000E-02	6.3788E-10	3.6618E-08	7.5974E-03	4.4540E+00	7.2510E+02	3.3919E+01	4.0935E+03
4.0000E-02	6.3794E-10	3.6630E-08	7.6002E-03	4.4556E+00	7.2536E+02	3.3922E+01	4.0943E+03
5.0000E-02	6.3801E-10	3.6642E-08	7.6029E-03	4.4572E+00	7.2562E+02	3.3925E+01	4.0947E+03
6.0000E-02	6.3807E-10	3.6654E-08	7.6055E-03	4.4587E+00	7.2587E+02	3.3928E+01	4.0951E+03
7.0000E-02	6.3814E-10	3.6666E-08	7.6081E-03	4.4602E+00	7.2611E+02	3.3930E+01	4.0955E+03
8.0000E-02	6.3820E-10	3.6677E-08	7.6107E-03	4.4617E+00	7.2636E+02	3.3933E+01	4.0958E+03
9.0000E-02	6.3826E-10	3.6688E-08	7.6132E-03	4.4632E+00	7.2659E+02	3.3935E+01	4.0962E+03
1.0000E-01	6.3831E-10	3.6698E-08	7.6156E-03	4.4646E+00	7.2683E+02	3.3937E+01	4.0965E+03
1.0000E-01	6.3836E-10	3.6708E-08	7.6180E-03	4.4660E+00	7.2706E+02	3.3940E+01	4.0968E+03
1.2000E-01	6.3842E-10	3.6717E-08	7.6204E-03	4.4674E+00	7.2728E+02	3.3941E+01	4.0971E+03
1.3000E-01	6.3846E-10	3.6721E-08	7.6227E-03	4.4687E+00	7.2750E+02	3.3943E+01	4.0974E+03
1.4000E-01	6.3851E-10	3.6724E-08	7.6250E-03	4.4701E+00	7.2772E+02	3.3945E+01	4.0976E+03
1.5000E-01	6.3855E-10	3.6727E-08	7.6272E-03	4.4714E+00	7.2793E+02	3.3946E+01	4.0979E+03
1.6000E-01	6.3859E-10	3.6729E-08	7.6294E-03	4.4728E+00	7.2814E+02	3.3948E+01	4.0981E+03
1.7000E-01	6.3863E-10	3.6731E-08	7.6315E-03	4.4739E+00	7.2834E+02	3.3949E+01	4.0983E+03
1.8000E-01	6.3866E-10	3.6732E-08	7.6336E-03	4.4751E+00	7.2854E+02	3.3950E+01	4.0985E+03
1.9000E-01	6.3870E-10	3.6733E-08	7.6357E-03	4.4763E+00	7.2873E+02	3.3951E+01	4.0987E+03
2.0000E-01	6.3872E-10	3.6734E-08	7.6377E-03	4.4775E+00	7.2892E+02	3.3952E+01	4.0989E+03
2.0000E-01	6.3875E-10	3.6735E-08	7.6396E-03	4.4788E+00	7.2911E+02	3.3953E+01	4.0991E+03
2.0000E-01	6.3877E-10	3.6736E-08	7.6415E-03	4.4797E+00	7.2929E+02	3.3954E+01	4.0992E+03
2.0000E-01	6.3879E-10	3.6737E-08	7.6434E-03	4.4808E+00	7.2946E+02	3.3955E+01	4.0993E+03
2.0000E-01	6.3881E-10	3.6738E-08	7.6452E-03	4.4818E+00	7.2964E+02	3.3956E+01	4.0994E+03
2.0000E-01	6.3882E-10	3.6739E-08	7.6470E-03	4.4829E+00	7.2981E+02	3.3957E+01	4.0995E+03
2.0000E-01	6.3883E-10	3.6740E-08	7.6487E-03	4.4839E+00	7.2997E+02	3.3958E+01	4.0996E+03
2.0000E-01	6.3884E-10	3.6741E-08	7.6504E-03	4.4849E+00	7.3013E+02	3.3959E+01	4.0997E+03
2.0000E-01	6.3885E-10	3.6742E-08	7.6521E-03	4.4858E+00	7.3029E+02	3.3959E+01	4.0998E+03
2.0000E-01	6.3886E-10	3.6743E-08	7.6537E-03	4.4868E+00	7.3044E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3887E-10	3.6744E-08	7.6552E-03	4.4877E+00	7.3059E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3888E-10	3.6745E-08	7.6566E-03	4.4886E+00	7.3073E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3889E-10	3.6746E-08	7.6580E-03	4.4894E+00	7.3087E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3890E-10	3.6747E-08	7.6592E-03	4.4903E+00	7.3101E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3891E-10	3.6748E-08	7.6604E-03	4.4911E+00	7.3114E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3892E-10	3.6749E-08	7.6615E-03	4.4919E+00	7.3127E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3893E-10	3.6750E-08	7.6626E-03	4.4926E+00	7.3140E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3894E-10	3.6751E-08	7.6636E-03	4.4934E+00	7.3152E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3895E-10	3.6752E-08	7.6645E-03	4.4941E+00	7.3164E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3896E-10	3.6753E-08	7.6653E-03	4.4948E+00	7.3175E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3897E-10	3.6754E-08	7.6660E-03	4.4955E+00	7.3186E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3898E-10	3.6755E-08	7.6667E-03	4.4962E+00	7.3197E+02	3.3959E+01	4.0999E+03
2.0000E-01	6.3899E-10	3.6756E-08	7.6674E-03	4.4968E+00	7.3207E+02	3.3942E+01	4.0986E+03
2.0000E-01	6.3900E-10	3.6757E-08	7.6680E-03	4.4974E+00	7.3218E+02	3.3941E+01	4.0985E+03
2.0000E-01	6.3901E-10	3.6758E-08	7.6686E-03	4.4980E+00	7.3227E+02	3.3940E+01	4.0984E+03
2.0000E-01	6.3902E-10	3.6759E-08	7.6691E-03	4.4985E+00	7.3237E+02	3.3939E+01	4.0983E+03
2.0000E-01	6.3903E-10	3.6760E-08	7.6695E-03	4.4992E+00	7.3246E+02	3.3938E+01	4.0982E+03
2.0000E-01	6.3904E-10	3.6761E-08	7.6698E-03	4.4997E+00	7.3255E+02	3.3937E+01	4.0980E+03





ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
0.000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.8330E-05	5.9000E-04	0.0000E+00	1.6940E+03	5.3190E+08	2.5600E+01	3.1640E+02	1.7140E+00
3.5816E+05	2.7000E+03	3.3566E+03	2.7800E+02	1.7760E-02	2.5000E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E+01	5.6000E+04
1.0000E+03	4.7700E-01	2.3400E-01	6.4300E-02	3.2260E-07	5.2080E-08		
0.000E+00	1.2855E+00	4.0644E+01	1.0202E-05	1.0000E+01	5.4471E-07	7.7635E-06	1.4555E-06
1.000E-02	-1.2353E+00	4.0631E+01	1.0195E-05	1.0000E+01	5.3071E-07	7.7689E-06	1.4475E-06
3.000E-02	-1.1868E+00	4.0619E+01	1.0196E-05	1.0000E+01	5.3071E-07	7.7741E-06	1.4399E-06
5.000E-02	-1.1395E+00	4.0608E+01	1.0193E-05	1.0000E+01	5.0326E-07	7.7792E-06	1.4323E-06
8.000E-02	-1.0933E+00	4.0596E+01	1.0190E-05	1.0000E+01	4.8988E-07	7.7844E-06	1.4249E-06
1.000E-01	-1.0493E+00	4.0586E+01	1.0187E-05	1.0000E+01	4.7672E-07	7.7896E-06	1.4176E-06
2.000E-01	-9.8176E-01	4.0566E+01	1.0184E-05	1.0000E+01	4.6379E-07	7.7937E-06	1.4103E-06
3.000E-01	-9.2031E-01	4.0547E+01	1.0181E-05	1.0000E+01	4.5108E-07	7.7983E-06	1.4033E-06
4.000E-01	-8.6006E-01	4.0528E+01	1.0178E-05	1.0000E+01	4.3859E-07	7.8027E-06	1.3963E-06
5.000E-01	-8.0101E-01	4.0509E+01	1.0175E-05	1.0000E+01	4.2632E-07	7.8071E-06	1.3894E-06
6.000E-01	-7.4318E-01	4.0490E+01	1.0172E-05	1.0000E+01	4.1428E-07	7.8113E-06	1.3827E-06
7.000E-01	-6.8652E-01	4.0471E+01	1.0169E-05	1.0000E+01	4.0246E-07	7.8153E-06	1.3760E-06
8.000E-01	-6.3168E-01	4.0452E+01	1.0166E-05	1.0000E+01	3.9086E-07	7.8193E-06	1.3695E-06
9.000E-01	-5.7807E-01	4.0433E+01	1.0162E-05	1.0000E+01	3.7948E-07	7.8232E-06	1.3631E-06
1.000E-00	-5.2552E-01	4.0414E+01	1.0159E-05	1.0000E+01	3.6832E-07	7.8269E-06	1.3568E-06
1.500E-00	-4.7406E-01	4.0395E+01	1.0155E-05	1.0000E+01	3.5739E-07	7.8305E-06	1.3507E-06
2.000E-00	-4.2369E-01	4.0376E+01	1.0152E-05	1.0000E+01	3.4667E-07	7.8341E-06	1.3447E-06
2.500E-00	-3.7442E-01	4.0357E+01	1.0149E-05	1.0000E+01	3.3618E-07	7.8375E-06	1.3387E-06
3.000E-00	-3.2625E-01	4.0338E+01	1.0145E-05	1.0000E+01	3.2590E-07	7.8408E-06	1.3329E-06
3.500E-00	-2.7918E-01	4.0319E+01	1.0142E-05	1.0000E+01	3.1584E-07	7.8440E-06	1.3273E-06
4.000E-00	-2.3321E-01	4.0300E+01	1.0138E-05	1.0000E+01	3.0600E-07	7.8471E-06	1.3217E-06
4.500E-00	-1.8834E-01	4.0281E+01	1.0134E-05	1.0000E+01	2.9638E-07	7.8501E-06	1.3163E-06
5.000E-00	-1.4457E-01	4.0262E+01	1.0130E-05	1.0000E+01	2.8697E-07	7.8530E-06	1.3110E-06
5.500E-00	-1.0190E-01	4.0243E+01	1.0126E-05	1.0000E+01	2.7778E-07	7.8558E-06	1.3058E-06
6.000E-00	-7.0345E-02	4.0224E+01	1.0122E-05	1.0000E+01	2.6880E-07	7.8586E-06	1.3007E-06
6.500E-00	-4.1590E-02	4.0205E+01	1.0118E-05	1.0000E+01	2.6003E-07	7.8612E-06	1.2957E-06
7.000E-00	-1.4945E-02	4.0186E+01	1.0114E-05	1.0000E+01	2.5147E-07	7.8638E-06	1.2909E-06
7.500E-00	1.1755E-02	4.0167E+01	1.0110E-05	1.0000E+01	2.4311E-07	7.8663E-06	1.2862E-06
8.000E-00	3.9000E-02	4.0148E+01	1.0106E-05	1.0000E+01	2.3497E-07	7.8688E-06	1.2816E-06
8.500E-00	6.6245E-02	4.0129E+01	1.0102E-05	1.0000E+01	2.2703E-07	7.8710E-06	1.2771E-06
9.000E-00	9.3490E-02	4.0110E+01	1.0098E-05	1.0000E+01	2.1929E-07	7.8732E-06	1.2727E-06
9.500E-00	1.2074E-01	4.0091E+01	1.0094E-05	1.0000E+01	2.1175E-07	7.8753E-06	1.2684E-06
1.000E-00	1.4819E-01	4.0072E+01	1.0090E-05	1.0000E+01	2.0441E-07	7.8774E-06	1.2643E-06
1.050E-00	1.7564E-01	4.0053E+01	1.0086E-05	1.0000E+01	1.9726E-07	7.8794E-06	1.2602E-06
1.100E-00	2.0309E-01	4.0034E+01	1.0082E-05	1.0000E+01	1.9030E-07	7.8814E-06	1.2563E-06
1.150E-00	2.3054E-01	4.0015E+01	1.0078E-05	1.0000E+01	1.8354E-07	7.8832E-06	1.2524E-06
1.200E-00	2.5799E-01	3.9996E+01	1.0074E-05	1.0000E+01	1.7696E-07	7.8850E-06	1.2487E-06
1.250E-00	2.8544E-01	3.9977E+01	1.0070E-05	1.0000E+01	1.7057E-07	7.8868E-06	1.2451E-06
1.300E-00	3.1289E-01	3.9958E+01	1.0066E-05	1.0000E+01	1.6436E-07	7.8885E-06	1.2416E-06
1.350E-00	3.4034E-01	3.9939E+01	1.0062E-05	1.0000E+01	1.5833E-07	7.8901E-06	1.2381E-06
1.400E-00	3.6779E-01	3.9920E+01	1.0058E-05	1.0000E+01	1.5247E-07	7.8916E-06	1.2348E-06
1.450E-00	3.9524E-01	3.9901E+01	1.0054E-05	1.0000E+01	1.4678E-07	7.8931E-06	1.2316E-06
1.500E-00	4.2269E-01	3.9882E+01	1.0050E-05	1.0000E+01	1.4127E-07	7.8946E-06	1.2285E-06
1.550E-00	4.5014E-01	3.9863E+01	1.0046E-05	1.0000E+01	1.3593E-07	7.8959E-06	1.2254E-06
1.600E-00	4.7759E-01	3.9844E+01	1.0042E-05	1.0000E+01	1.3074E-07	7.8973E-06	1.2224E-06
1.650E-00	5.0504E-01	3.9825E+01	1.0038E-05	1.0000E+01	1.2572E-07	7.8986E-06	1.2196E-06
1.700E-00	5.3249E-01	3.9806E+01	1.0034E-05	1.0000E+01	1.2086E-07	7.8998E-06	1.2169E-06
1.750E-00	5.5994E-01	3.9787E+01	1.0030E-05	1.0000E+01	1.1614E-07	7.9010E-06	1.2142E-06

4.8000E-01	-6.2300E-02	4.0401E+01	1.0110E-05	1.0000E+01	1.1158E-07	7.9021E-06	1.2116E-06
4.9000E-01	-7.5527E-02	4.0400E+01	1.0109E-05	1.0000E+01	1.0717E-07	7.9032E-06	1.2091E-06
5.0000E-01	-6.9149E-02	4.0399E+01	1.0108E-05	1.0000E+01	1.0290E-07	7.9043E-06	1.2067E-06
5.1000E-01	-6.3131E-02	4.0398E+01	1.0108E-05	1.0000E+01	9.8772E-08	7.9053E-06	1.2043E-06
5.2000E-01	-5.7474E-02	4.0398E+01	1.0107E-05	1.0000E+01	9.4761E-08	7.9062E-06	1.2021E-06
5.3000E-01	-5.2155E-02	4.0397E+01	1.0107E-05	1.0000E+01	9.0925E-08	7.9072E-06	1.1999E-06
5.4000E-01	-4.7161E-02	4.0397E+01	1.0106E-05	1.0000E+01	8.7199E-08	7.9081E-06	1.1978E-06
5.5000E-01	-4.2474E-02	4.0397E+01	1.0106E-05	1.0000E+01	8.3602E-08	7.9089E-06	1.1957E-06
5.6000E-01	-3.8082E-02	4.0396E+01	1.0105E-05	1.0000E+01	8.0129E-08	7.9097E-06	1.1938E-06
5.7000E-01	-3.3968E-02	4.0396E+01	1.0105E-05	1.0000E+01	7.6778E-08	7.9105E-06	1.1918E-06
5.8000E-01	-3.0121E-02	4.0396E+01	1.0104E-05	1.0000E+01	7.3548E-08	7.9113E-06	1.1900E-06
5.9000E-01	-2.6527E-02	4.0396E+01	1.0104E-05	1.0000E+01	7.0427E-08	7.9120E-06	1.1882E-06
6.0000E-01	-2.3172E-02	4.0395E+01	1.0104E-05	1.0000E+01	6.7421E-08	7.9127E-06	1.1865E-06
6.1000E-01	-2.0046E-02	4.0395E+01	1.0103E-05	1.0000E+01	6.4525E-08	7.9133E-06	1.1849E-06
6.2000E-01	-1.7137E-02	4.0395E+01	1.0103E-05	1.0000E+01	6.1734E-08	7.9139E-06	1.1833E-06
6.3000E-01	-1.4434E-02	4.0395E+01	1.0103E-05	1.0000E+01	5.9046E-08	7.9146E-06	1.1818E-06
6.4000E-01	-1.1925E-02	4.0395E+01	1.0102E-05	1.0000E+01	5.6459E-08	7.9151E-06	1.1803E-06
6.5000E-01	-9.5995E-03	4.0395E+01	1.0102E-05	1.0000E+01	5.3988E-08	7.9157E-06	1.1789E-06
6.6000E-01	-7.4488E-03	4.0394E+01	1.0102E-05	1.0000E+01	5.1572E-08	7.9162E-06	1.1775E-06
6.7000E-01	-5.4624E-03	4.0394E+01	1.0102E-05	1.0000E+01	4.9287E-08	7.9167E-06	1.1762E-06
6.8000E-01	-3.6319E-03	4.0394E+01	1.0101E-05	1.0000E+01	4.7051E-08	7.9172E-06	1.1750E-06
6.9000E-01	-1.9482E-03	4.0394E+01	1.0101E-05	1.0000E+01	4.4921E-08	7.9177E-06	1.1738E-06
7.0000E-01	-4.0301E-04	4.0394E+01	1.0101E-05	1.0000E+01	4.2875E-08	7.9181E-06	1.1726E-06
7.1000E-01	3.033E-03	4.0394E+01	1.0101E-05	1.0000E+01	4.0908E-08	7.9185E-06	1.1715E-06
7.2000E-01	3.4793E-03	4.0394E+01	1.0101E-05	1.0000E+01	3.9020E-08	7.9189E-06	1.1704E-06
7.3000E-01	4.5466E-03	4.0394E+01	1.0100E-05	1.0000E+01	3.7208E-08	7.9193E-06	1.1694E-06
7.4000E-01	5.5118E-03	4.0394E+01	1.0100E-05	1.0000E+01	3.5469E-08	7.9197E-06	1.1684E-06
7.5000E-01	6.3813E-03	4.0395E+01	1.0100E-05	1.0000E+01	3.3800E-08	7.9200E-06	1.1675E-06
7.6000E-01	7.1610E-03	4.0395E+01	1.0100E-05	1.0000E+01	3.2199E-08	7.9203E-06	1.1666E-06
7.7000E-01	7.8567E-03	4.0395E+01	1.0100E-05	1.0000E+01	3.0665E-08	7.9207E-06	1.1657E-06
7.8000E-01	8.4738E-03	4.0395E+01	1.0100E-05	1.0000E+01	2.9194E-08	7.9210E-06	1.1648E-06
7.9000E-01	9.0175E-03	4.0395E+01	1.0100E-05	1.0000E+01	2.7785E-08	7.9212E-06	1.1640E-06
8.0000E-01	9.4927E-03	4.0395E+01	1.0100E-05	1.0000E+01	2.6436E-08	7.9215E-06	1.1633E-06
8.1000E-01	9.9040E-03	4.0395E+01	1.0100E-05	1.0000E+01	2.5143E-08	7.9218E-06	1.1625E-06
8.2000E-01	1.0256E-02	4.0395E+01	1.0100E-05	1.0000E+01	2.3908E-08	7.9220E-06	1.1618E-06
8.3000E-01	1.0553E-02	4.0395E+01	1.0100E-05	1.0000E+01	2.2722E-08	7.9222E-06	1.1612E-06
8.4000E-01	1.0798E-02	4.0395E+01	1.0099E-05	1.0000E+01	2.1590E-08	7.9225E-06	1.1605E-06
8.5000E-01	1.0996E-02	4.0395E+01	1.0099E-05	1.0000E+01	2.0507E-08	7.9227E-06	1.1599E-06
8.6000E-01	1.1151E-02	4.0396E+01	1.0099E-05	1.0000E+01	1.9471E-08	7.9229E-06	1.1593E-06
8.7000E-01	1.1264E-02	4.0396E+01	1.0099E-05	1.0000E+01	1.8482E-08	7.9231E-06	1.1588E-06
8.8000E-01	1.1341E-02	4.0396E+01	1.0099E-05	1.0000E+01	1.7536E-08	7.9233E-06	1.1582E-06
8.9000E-01	1.1383E-02	4.0396E+01	1.0099E-05	1.0000E+01	1.6633E-08	7.9234E-06	1.1577E-06
9.0000E-01	1.1393E-02	4.0396E+01	1.0099E-05	1.0000E+01	1.5771E-08	7.9236E-06	1.1572E-06
9.1000E-01	1.1373E-02	4.0396E+01	1.0099E-05	1.0000E+01	1.4949E-08	7.9237E-06	1.1568E-06
9.2000E-01	1.1330E-02	4.0396E+01	1.0099E-05	1.0000E+01	1.4163E-08	7.9239E-06	1.1563E-06
9.3000E-01	1.1261E-02	4.0396E+01	1.0099E-05	1.0000E+01	1.3415E-08	7.9240E-06	1.1559E-06
9.4000E-01	1.1171E-02	4.0396E+01	1.0099E-05	1.0000E+01	1.2700E-08	7.9242E-06	1.1555E-06
9.5000E-01	1.1060E-02	4.0397E+01	1.0099E-05	1.0000E+01	1.2020E-08	7.9243E-06	1.1551E-06
9.6000E-01	1.0933E-02	4.0397E+01	1.0099E-05	1.0000E+01	1.1371E-08	7.9244E-06	1.1547E-06
9.7000E-01	1.0789E-02	4.0397E+01	1.0099E-05	1.0000E+01	1.0753E-08	7.9245E-06	1.1544E-06
9.8000E-01	1.0631E-02	4.0397E+01	1.0099E-05	1.0000E+01	1.0165E-08	7.9246E-06	1.1541E-06
9.9000E-01	1.0460E-02	4.0397E+01	1.0099E-05	1.0000E+01	9.6049E-09	7.9247E-06	1.1537E-06
1.0000E+00	1.0289E-02	4.0397E+01	1.0099E-05	1.0000E+01	9.0720E-09	7.9248E-06	1.1534E-06

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00
1.8330E-05	5.9000E-04	0.0000E+00	1.6840E+03	5.3190E+06	2.5600E+01
3.5816E+05	2.4000E+00	3.8500E-03	2.7800E+01	1.7760E-02	1.7140E+00
7.4000E+00	2.4000E+00	3.8500E-03	2.0000E+01	5.5611E-01	8.3283E-09
1.0000E+03	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.8000E+04
0.0000E+00	3.0156E+00	1.6897E+02	2.6417E+02	6.9039E+02	3.5600E+03
1.0000E-02	2.9990E+00	1.6804E+02	2.6436E+02	6.9085E+02	3.5600E+03
2.0000E-02	2.9878E+00	1.6713E+02	2.6454E+02	6.9092E+02	3.5600E+03
3.0000E-02	2.9669E+00	1.6624E+02	2.6471E+02	6.9118E+02	3.5600E+03
4.0000E-02	2.9513E+00	1.6538E+02	2.6488E+02	6.9144E+02	3.5600E+03
5.0000E-02	2.9349E+00	1.6450E+02	2.6505E+02	6.9169E+02	3.5600E+03
6.0000E-02	2.9208E+00	1.6365E+02	2.6521E+02	6.9194E+02	3.5600E+03
7.0000E-02	2.9089E+00	1.6282E+02	2.6537E+02	6.9218E+02	3.5600E+03
8.0000E-02	2.8993E+00	1.6196E+02	2.6552E+02	6.9242E+02	3.5600E+03
9.0000E-02	2.8929E+00	1.6118E+02	2.6567E+02	6.9266E+02	3.5600E+03
1.0000E-01	2.8897E+00	1.6039E+02	2.6582E+02	6.9289E+02	3.5600E+03
1.0000E-01	2.8487E+00	1.5861E+02	2.6596E+02	6.9312E+02	3.5600E+03
1.2000E-01	2.8350E+00	1.5884E+02	2.6623E+02	6.9334E+02	3.5600E+03
1.4000E-01	2.8216E+00	1.5908E+02	2.6638E+02	6.9356E+02	3.5600E+03
1.6000E-01	2.8084E+00	1.5734E+02	2.6656E+02	6.9377E+02	3.5600E+03
1.8000E-01	2.7954E+00	1.5662E+02	2.6678E+02	6.9398E+02	3.5600E+03
2.0000E-01	2.7827E+00	1.5592E+02	2.6660E+02	6.9418E+02	3.5600E+03
2.2000E-01	2.7702E+00	1.5520E+02	2.6672E+02	6.9438E+02	3.5600E+03
2.4000E-01	2.7580E+00	1.5452E+02	2.6684E+02	6.9459E+02	3.5600E+03
2.6000E-01	2.7460E+00	1.5384E+02	2.6695E+02	6.9478E+02	3.5600E+03
2.8000E-01	2.7343E+00	1.5319E+02	2.6708E+02	6.9497E+02	3.5600E+03
3.0000E-01	2.7228E+00	1.5254E+02	2.6716E+02	6.9515E+02	3.5600E+03
3.2000E-01	2.7116E+00	1.5191E+02	2.6736E+02	6.9533E+02	3.5600E+03
3.4000E-01	2.7006E+00	1.5129E+02	2.6736E+02	6.9551E+02	3.5600E+03
3.6000E-01	2.6898E+00	1.5069E+02	2.6745E+02	6.9568E+02	3.5600E+03
3.8000E-01	2.6793E+00	1.5010E+02	2.6754E+02	6.9585E+02	3.5600E+03
4.0000E-01	2.6691E+00	1.4953E+02	2.6763E+02	6.9602E+02	3.5600E+03
4.2000E-01	2.6591E+00	1.4898E+02	2.6772E+02	6.9618E+02	3.5600E+03
4.4000E-01	2.6493E+00	1.4846E+02	2.6780E+02	6.9635E+02	3.5600E+03
4.6000E-01	2.6397E+00	1.4796E+02	2.6788E+02	6.9652E+02	3.5600E+03
4.8000E-01	2.6304E+00	1.4748E+02	2.6796E+02	6.9669E+02	3.5600E+03
5.0000E-01	2.6214E+00	1.4685E+02	2.6803E+02	6.9678E+02	3.5600E+03
5.2000E-01	2.6125E+00	1.4635E+02	2.6810E+02	6.9692E+02	3.5600E+03
5.4000E-01	2.6039E+00	1.4587E+02	2.6817E+02	6.9706E+02	3.5600E+03
5.6000E-01	2.5955E+00	1.4540E+02	2.6824E+02	6.9719E+02	3.5600E+03
5.8000E-01	2.5874E+00	1.4494E+02	2.6831E+02	6.9732E+02	3.5600E+03
6.0000E-01	2.5794E+00	1.4449E+02	2.6837E+02	6.9745E+02	3.5600E+03
6.2000E-01	2.5717E+00	1.4406E+02	2.6843E+02	6.9757E+02	3.5600E+03
6.4000E-01	2.5642E+00	1.4364E+02	2.6849E+02	6.9769E+02	3.5600E+03
6.6000E-01	2.5569E+00	1.4323E+02	2.6854E+02	6.9780E+02	3.5600E+03
6.8000E-01	2.5498E+00	1.4283E+02	2.6860E+02	6.9792E+02	3.5600E+03
7.0000E-01	2.5429E+00	1.4244E+02	2.6865E+02	6.9803E+02	3.5600E+03
7.2000E-01	2.5363E+00	1.4207E+02	2.6870E+02	6.9813E+02	3.5600E+03
7.4000E-01	2.5299E+00	1.4170E+02	2.6875E+02	6.9823E+02	3.5600E+03
7.6000E-01	2.5235E+00	1.4135E+02	2.6879E+02	6.9833E+02	3.5600E+03
7.8000E-01	2.5174E+00	1.4101E+02	2.6884E+02	6.9843E+02	3.5600E+03
8.0000E-01	2.5115E+00	1.4068E+02	2.6888E+02	6.9852E+02	3.5600E+03
8.2000E-01	2.5058E+00	1.4035E+02	2.6892E+02	6.9861E+02	3.5600E+03

4.8000E-01	2.5002E+00	1.4004E+02	2.6886E+02	6.8876E+02	3.5600E+03
4.9000E-01	2.4945E+00	1.3747E+02	2.6900E+02	6.8879E+02	3.5600E+03
5.0000E-01	2.4897E+00	1.3545E+02	2.6903E+02	6.8881E+02	3.5600E+03
5.1000E-01	2.4846E+00	1.3317E+02	2.6907E+02	6.8895E+02	3.5600E+03
5.2000E-01	2.4798E+00	1.3889E+02	2.6910E+02	6.8902E+02	3.5600E+03
5.3000E-01	2.4751E+00	1.3863E+02	2.6913E+02	6.8910E+02	3.5600E+03
5.4000E-01	2.4705E+00	1.3838E+02	2.6916E+02	6.8917E+02	3.5600E+03
5.5000E-01	2.4662E+00	1.3813E+02	2.6919E+02	6.8924E+02	3.5600E+03
5.6000E-01	2.4619E+00	1.3789E+02	2.6922E+02	6.8931E+02	3.5600E+03
5.7000E-01	2.4578E+00	1.3766E+02	2.6925E+02	6.8938E+02	3.5600E+03
5.8000E-01	2.4539E+00	1.3744E+02	2.6928E+02	6.8945E+02	3.5600E+03
5.9000E-01	2.4501E+00	1.3722E+02	2.6930E+02	6.8949E+02	3.5600E+03
6.0000E-01	2.4464E+00	1.3702E+02	2.6932E+02	6.8955E+02	3.5600E+03
6.1000E-01	2.4429E+00	1.3682E+02	2.6935E+02	6.8961E+02	3.5600E+03
6.2000E-01	2.4394E+00	1.3663E+02	2.6937E+02	6.8968E+02	3.5600E+03
6.3000E-01	2.4362E+00	1.3644E+02	2.6939E+02	6.8971E+02	3.5600E+03
6.4000E-01	2.4332E+00	1.3626E+02	2.6941E+02	6.8976E+02	3.5600E+03
6.5000E-01	2.4305E+00	1.3609E+02	2.6943E+02	6.8981E+02	3.5600E+03
6.6000E-01	2.4279E+00	1.3595E+02	2.6945E+02	6.8985E+02	3.5600E+03
6.7000E-01	2.4254E+00	1.3577E+02	2.6947E+02	6.8990E+02	3.5600E+03
6.8000E-01	2.4231E+00	1.3562E+02	2.6948E+02	6.8994E+02	3.5600E+03
6.9000E-01	2.4210E+00	1.3547E+02	2.6950E+02	6.8998E+02	3.5600E+03
7.0000E-01	2.4193E+00	1.3533E+02	2.6951E+02	7.0002E+02	3.5600E+03
7.1000E-01	2.4178E+00	1.3518E+02	2.6953E+02	7.0006E+02	3.5600E+03
7.2000E-01	2.4165E+00	1.3506E+02	2.6954E+02	7.0010E+02	3.5600E+03
7.3000E-01	2.4154E+00	1.3494E+02	2.6955E+02	7.0013E+02	3.5600E+03
7.4000E-01	2.4144E+00	1.3482E+02	2.6956E+02	7.0016E+02	3.5600E+03
7.5000E-01	2.4135E+00	1.3470E+02	2.6957E+02	7.0019E+02	3.5600E+03
7.6000E-01	2.4128E+00	1.3459E+02	2.6958E+02	7.0022E+02	3.5600E+03
7.7000E-01	2.4122E+00	1.3449E+02	2.6960E+02	7.0025E+02	3.5600E+03
7.8000E-01	2.4117E+00	1.3438E+02	2.6961E+02	7.0028E+02	3.5600E+03
7.9000E-01	2.4113E+00	1.3429E+02	2.6962E+02	7.0031E+02	3.5600E+03
8.0000E-01	2.4110E+00	1.3419E+02	2.6963E+02	7.0034E+02	3.5600E+03
8.1000E-01	2.4107E+00	1.3410E+02	2.6964E+02	7.0036E+02	3.5600E+03
8.2000E-01	2.4105E+00	1.3402E+02	2.6965E+02	7.0039E+02	3.5600E+03
8.3000E-01	2.4103E+00	1.3394E+02	2.6966E+02	7.0041E+02	3.5600E+03
8.4000E-01	2.4102E+00	1.3386E+02	2.6966E+02	7.0043E+02	3.5600E+03
8.5000E-01	2.4101E+00	1.3378E+02	2.6967E+02	7.0045E+02	3.5600E+03
8.6000E-01	2.4100E+00	1.3371E+02	2.6968E+02	7.0047E+02	3.5600E+03
8.7000E-01	2.4099E+00	1.3364E+02	2.6969E+02	7.0049E+02	3.5600E+03
8.8000E-01	2.4098E+00	1.3358E+02	2.6969E+02	7.0051E+02	3.5600E+03
8.9000E-01	2.4097E+00	1.3351E+02	2.6970E+02	7.0053E+02	3.5600E+03
9.0000E-01	2.4096E+00	1.3345E+02	2.6970E+02	7.0054E+02	3.5600E+03
9.1000E-01	2.4095E+00	1.3340E+02	2.6971E+02	7.0056E+02	3.5600E+03
9.2000E-01	2.4094E+00	1.3334E+02	2.6971E+02	7.0057E+02	3.5600E+03
9.3000E-01	2.4093E+00	1.3329E+02	2.6972E+02	7.0059E+02	3.5600E+03
9.4000E-01	2.4092E+00	1.3324E+02	2.6972E+02	7.0060E+02	3.5600E+03
9.5000E-01	2.4091E+00	1.3319E+02	2.6973E+02	7.0061E+02	3.5600E+03
9.6000E-01	2.4090E+00	1.3315E+02	2.6973E+02	7.0063E+02	3.5600E+03
9.7000E-01	2.4089E+00	1.3310E+02	2.6973E+02	7.0064E+02	3.5600E+03
9.8000E-01	2.4088E+00	1.3306E+02	2.6974E+02	7.0065E+02	3.5600E+03
9.9000E-01	2.4087E+00	1.3302E+02	2.6974E+02	7.0066E+02	3.5600E+03
1.0000E+00	2.4086E+00	1.3299E+02	2.6975E+02	7.0067E+02	3.5600E+03

Appendix #19.

ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.0000E+00	5.0500E+00	-2.0668E-07	-1.8551E-03	-4.1230E-02	3.6410E-01	1.7793E+00	3.1000E+02
1.0000E-01	5.0500E+00	9.3306E-07	1.4685E-03	6.0399E-01	3.6723E-01	2.4401E+00	1.1186E-08
2.0000E-02	5.0500E+00	1.9396E-06	8.0434E-03	9.5359E-01	3.7519E-01	2.8296E+00	1.0465E-05
3.0000E-02	5.0500E+00	3.4456E-06	1.5145E-02	1.1447E+00	3.8576E-01	3.0736E+00	1.3707E-05
4.0000E-02	5.0500E+00	2.7756E-06	2.1629E-02	1.2491E+00	3.9760E-01	3.2281E+00	1.2474E-05
5.0000E-02	5.0500E+00	3.9631E-06	2.7090E-02	1.3038E+00	4.1060E-01	3.3568E+00	1.0802E-05
6.0000E-02	5.0500E+00	4.3522E-06	3.1461E-02	1.3283E+00	4.2376E-01	3.4472E+00	9.1148E-06
7.0000E-02	5.0500E+00	4.6322E-06	3.4816E-02	1.3327E+00	4.3710E-01	3.5187E+00	7.5717E-06
8.0000E-02	5.0500E+00	4.8216E-06	3.7280E-02	1.3327E+00	4.5040E-01	3.5767E+00	6.2242E-06
9.0000E-01	5.0500E+00	4.9363E-06	4.0000E-02	1.3067E+00	4.6356E-01	3.6245E+00	5.0761E-06
1.0000E-01	5.0500E+00	4.9902E-06	4.2816E-02	1.2817E+00	4.7651E-01	3.6642E+00	4.1117E-06
1.2000E-01	5.0500E+00	4.9468E-06	4.0618E-02	1.2515E+00	4.8918E-01	3.6974E+00	3.3086E-06
1.4000E-01	5.0500E+00	4.9576E-06	4.0750E-02	1.2174E+00	5.0153E-01	3.7250E+00	2.6436E-06
1.6000E-01	5.0500E+00	4.8930E-06	4.0541E-02	1.1806E+00	5.1352E-01	3.7482E+00	2.0952E-06
1.8000E-01	5.0500E+00	4.8014E-06	4.0058E-02	1.1418E+00	5.2513E-01	3.7674E+00	1.6444E-06
2.0000E-01	5.0500E+00	4.6904E-06	3.9358E-02	1.1016E+00	5.3635E-01	3.7834E+00	1.2749E-06
2.2000E-01	5.0500E+00	4.5646E-06	3.8490E-02	1.0608E+00	5.4716E-01	3.7966E+00	9.7263E-07
2.4000E-01	5.0500E+00	4.4277E-06	3.7491E-02	1.0195E+00	5.5756E-01	3.8073E+00	7.2602E-07
2.6000E-01	5.0500E+00	4.2828E-06	3.6395E-02	9.7827E-01	5.6755E-01	3.8160E+00	5.2500E-07
2.8000E-01	5.0500E+00	4.1325E-06	3.5228E-02	9.3729E-01	5.7713E-01	3.8229E+00	3.6296E-07
3.0000E-01	5.0500E+00	3.9789E-06	3.4011E-02	8.9680E-01	5.8630E-01	3.8283E+00	2.3051E-07
3.2000E-01	5.0500E+00	3.8235E-06	3.2763E-02	8.5696E-01	5.9507E-01	3.8323E+00	1.2422E-07
3.4000E-01	5.0500E+00	3.6678E-06	3.1497E-02	8.1793E-01	6.0344E-01	3.8351E+00	3.6941E-08
3.6000E-01	5.0500E+00	3.5129E-06	3.0226E-02	7.7981E-01	6.1143E-01	3.8370E+00	-2.9067E-08
3.8000E-01	5.0500E+00	3.3598E-06	2.8960E-02	7.4267E-01	6.1904E-01	3.8379E+00	-8.2879E-08
4.0000E-01	5.0500E+00	3.2090E-06	2.7708E-02	7.0659E-01	6.2629E-01	3.8380E+00	-1.2502E-07
4.2000E-01	5.0500E+00	3.0612E-06	2.6470E-02	6.7160E-01	6.3318E-01	3.8375E+00	-1.5757E-07
4.4000E-01	5.0500E+00	2.9168E-06	2.5257E-02	6.3972E-01	6.3972E-01	3.8364E+00	-1.8223E-07
4.6000E-01	5.0500E+00	2.7761E-06	2.4072E-02	6.0504E-01	6.4594E-01	3.8347E+00	-2.0041E-07
4.8000E-01	5.0500E+00	2.6395E-06	2.2916E-02	5.7349E-01	6.5183E-01	3.8326E+00	-2.1326E-07
5.0000E-01	5.0500E+00	2.5070E-06	2.1793E-02	5.4309E-01	6.5741E-01	3.8301E+00	-2.2174E-07
5.2000E-01	5.0500E+00	2.3788E-06	2.0703E-02	5.1385E-01	6.6269E-01	3.8273E+00	-2.2664E-07
5.4000E-01	5.0500E+00	2.2551E-06	1.9648E-02	4.8575E-01	6.6769E-01	3.8242E+00	-2.2861E-07
5.6000E-01	5.0500E+00	2.1357E-06	1.8629E-02	4.5878E-01	6.7241E-01	3.8208E+00	-2.2820E-07
5.8000E-01	5.0500E+00	2.0208E-06	1.7646E-02	4.3292E-01	6.7687E-01	3.8173E+00	-2.2585E-07
6.0000E-01	5.0500E+00	1.9103E-06	1.6700E-02	4.0814E-01	6.8107E-01	3.8135E+00	-2.2194E-07
6.2000E-01	5.0500E+00	1.8042E-06	1.5789E-02	3.8443E-01	6.8504E-01	3.8095E+00	-2.1678E-07
6.4000E-01	5.0500E+00	1.7024E-06	1.4915E-02	3.6176E-01	6.8877E-01	3.8056E+00	-2.1084E-07
6.6000E-01	5.0500E+00	1.6048E-06	1.4075E-02	3.4009E-01	6.9227E-01	3.8015E+00	-2.0373E-07
6.8000E-01	5.0500E+00	1.5114E-06	1.3271E-02	3.1941E-01	6.9557E-01	3.7973E+00	-1.9623E-07
7.0000E-01	5.0500E+00	1.4221E-06	1.2501E-02	2.9967E-01	6.9867E-01	3.7930E+00	-1.8830E-07
7.2000E-01	5.0500E+00	1.3367E-06	1.1764E-02	2.8087E-01	7.0157E-01	3.7887E+00	-1.8007E-07
7.4000E-01	5.0500E+00	1.2552E-06	1.1059E-02	2.6295E-01	7.0429E-01	3.7844E+00	-1.7163E-07
7.6000E-01	5.0500E+00	1.1775E-06	1.0387E-02	2.4590E-01	7.0683E-01	3.7800E+00	-1.6309E-07
7.8000E-01	5.0500E+00	1.1033E-06	9.7451E-03	2.2968E-01	7.0921E-01	3.7757E+00	-1.5450E-07
8.0000E-01	5.0500E+00	1.0327E-06	9.1332E-03	2.1427E-01	7.1143E-01	3.7714E+00	-1.4595E-07

4.6000E-01	5.0500E+00	9.6550E-07	8.5503E-03	1.9963E-01	7.1349E-01	3.7671E+00	-1.3747E-07
4.7000E-01	5.0500E+00	9.0158E-07	7.9954E-03	1.9574E-01	7.1542E-01	3.7286E+00	-1.2910E-07
4.8000E-01	5.0500E+00	8.4083E-07	7.4675E-03	1.7257E-01	7.1721E-01	3.7586E+00	-1.2091E-07
4.9000E-01	5.0500E+00	7.8314E-07	6.9658E-03	1.6008E-01	7.1887E-01	3.7545E+00	-1.1287E-07
5.0000E-01	5.0500E+00	7.2839E-07	6.4893E-03	1.4828E-01	7.2042E-01	3.7503E+00	-1.0504E-07
5.1000E-01	5.0500E+00	6.7548E-07	6.0371E-03	1.3707E-01	7.2184E-01	3.7463E+00	-9.7439E-08
5.2000E-01	5.0500E+00	6.2748E-07	5.6081E-03	1.2649E-01	7.2316E-01	3.7423E+00	-9.0072E-08
5.3000E-01	5.0500E+00	5.8070E-07	5.2017E-03	1.1649E-01	7.2437E-01	3.7384E+00	-8.2951E-08
5.4000E-01	5.0500E+00	5.3663E-07	4.8167E-03	1.0708E-01	7.2548E-01	3.7345E+00	-7.6084E-08
5.5000E-01	5.0500E+00	4.9497E-07	4.4526E-03	9.8157E-02	7.2652E-01	3.7307E+00	-6.9476E-08
5.6000E-01	5.0500E+00	4.5561E-07	4.1081E-03	9.0787E-02	7.2746E-01	3.7270E+00	-6.3131E-08
5.7000E-01	5.0500E+00	4.1845E-07	3.7827E-03	8.1885E-02	7.2831E-01	3.7233E+00	-5.7049E-08
5.8000E-01	5.0500E+00	3.8341E-07	3.4755E-03	7.4430E-02	7.2909E-01	3.7195E+00	-5.1209E-08
5.9000E-01	5.0500E+00	3.5039E-07	3.1857E-03	6.7441E-02	7.2980E-01	3.7155E+00	-4.5673E-08
6.0000E-01	5.0500E+00	3.1930E-07	2.9126E-03	6.1044E-02	7.3044E-01	3.7113E+00	-4.0376E-08
6.1000E-01	5.0500E+00	2.9004E-07	2.6544E-03	5.4716E-02	7.3102E-01	3.7068E+00	-3.5345E-08
6.2000E-01	5.0500E+00	2.6255E-07	2.4134E-03	4.8941E-02	7.3154E-01	3.7026E+00	-3.0545E-08
6.3000E-01	5.0500E+00	2.3673E-07	2.1860E-03	4.3534E-02	7.3200E-01	3.7035E+00	-2.6002E-08
6.4000E-01	5.0500E+00	2.1252E-07	1.9723E-03	3.8476E-02	7.3241E-01	3.7005E+00	-2.1701E-08
6.5000E-01	5.0500E+00	1.8982E-07	1.7719E-03	3.3750E-02	7.3277E-01	3.6976E+00	-1.7635E-08
6.6000E-01	5.0500E+00	1.6870E-07	1.5840E-03	2.9388E-02	7.3309E-01	3.6948E+00	-1.3789E-08
6.7000E-01	5.0500E+00	1.4870E-07	1.4091E-03	2.5385E-02	7.3336E-01	3.6920E+00	-1.0186E-08
6.8000E-01	5.0500E+00	1.3011E-07	1.2435E-03	2.1402E-02	7.3359E-01	3.6894E+00	-6.7884E-09
6.9000E-01	5.0500E+00	1.1283E-07	1.0898E-03	1.7844E-02	7.3379E-01	3.6868E+00	-3.6007E-09
7.0000E-01	5.0500E+00	9.6691E-08	9.4636E-04	1.4543E-02	7.3395E-01	3.6843E+00	-6.1553E-10
7.1000E-01	5.0500E+00	8.1779E-08	8.1267E-04	1.1483E-02	7.3408E-01	3.6819E+00	-2.1742E-09
7.2000E-01	5.0500E+00	6.7729E-08	6.8825E-04	8.6521E-03	7.3418E-01	3.6796E+00	-4.7756E-09
7.3000E-01	5.0500E+00	5.4785E-08	5.7281E-04	6.0377E-03	7.3426E-01	3.6773E+00	-7.1957E-09
7.4000E-01	5.0500E+00	4.2798E-08	4.6529E-04	3.6278E-03	7.3430E-01	3.6751E+00	-9.4415E-09
7.5000E-01	5.0500E+00	3.1708E-08	3.6585E-04	1.4110E-03	7.3433E-01	3.6731E+00	-1.1520E-08
7.6000E-01	5.0500E+00	2.1474E-08	2.7386E-04	-6.2346E-04	7.3432E-01	3.6710E+00	-1.3438E-08
7.7000E-01	5.0500E+00	1.1847E-08	1.8893E-04	-2.4862E-03	7.3428E-01	3.6691E+00	-1.5203E-08
7.8000E-01	5.0500E+00	3.3770E-09	1.1066E-04	-4.1870E-03	7.3423E-01	3.6672E+00	-1.6820E-08
7.9000E-01	5.0500E+00	4.5734E-09	3.8672E-05	-5.7356E-03	7.3423E-01	3.6654E+00	-1.8298E-08
8.0000E-01	5.0500E+00	1.1847E-08	-2.7376E-05	-7.1409E-03	7.3417E-01	3.6637E+00	-1.9642E-08
8.1000E-01	5.0500E+00	-1.8484E-08	-8.7831E-05	-8.4117E-03	7.3409E-01	3.6620E+00	-2.0858E-08
8.2000E-01	5.0500E+00	-2.4522E-08	-1.9324E-04	-9.5561E-03	7.3399E-01	3.6604E+00	-2.1953E-08
8.3000E-01	5.0500E+00	-2.9998E-08	-2.3881E-04	-1.0582E-02	7.3390E-01	3.6589E+00	-2.2934E-08
8.4000E-01	5.0500E+00	-3.4941E-08	-2.7898E-04	-1.1497E-02	7.3379E-01	3.6575E+00	-2.3804E-08
8.5000E-01	5.0500E+00	-4.3371E-08	-2.7898E-04	-1.2308E-02	7.3367E-01	3.6560E+00	-2.4572E-08
8.6000E-01	5.0500E+00	-4.6811E-08	-3.1707E-04	-1.3022E-02	7.3354E-01	3.6547E+00	-2.5241E-08
8.7000E-01	5.0500E+00	-5.0055E-08	-3.5028E-04	-1.3646E-02	7.3341E-01	3.6534E+00	-2.5818E-08
8.8000E-01	5.0500E+00	-5.2812E-08	-3.7869E-04	-1.4185E-02	7.3327E-01	3.6522E+00	-2.6307E-08
8.9000E-01	5.0500E+00	-5.5213E-08	-4.0612E-04	-1.4645E-02	7.3313E-01	3.6510E+00	-2.6714E-08
9.0000E-01	5.0500E+00	-5.7282E-08	-4.2819E-04	-1.5032E-02	7.3298E-01	3.6499E+00	-2.7044E-08
9.1000E-01	5.0500E+00	-5.9042E-08	-4.4531E-04	-1.5351E-02	7.3283E-01	3.6488E+00	-2.7301E-08
9.2000E-01	5.0500E+00	-6.0515E-08	-4.6668E-04	-1.5607E-02	7.3267E-01	3.6478E+00	-2.7489E-08
9.3000E-01	5.0500E+00	-6.1721E-08	-4.9393E-04	-1.5804E-02	7.3251E-01	3.6468E+00	-2.7614E-08
9.4000E-01	5.0500E+00	-6.2680E-08	-5.0415E-04	-1.5948E-02	7.3236E-01	3.6458E+00	-2.7678E-08
9.5000E-01	5.0500E+00	-6.3410E-08	-5.0415E-04	-1.6089E-02	7.3220E-01	3.6449E+00	-2.7688E-08
9.6000E-01	5.0500E+00	-6.3929E-08	-5.1232E-04	-1.6089E-02	7.3204E-01	3.6441E+00	-2.7646E-08
9.7000E-01	5.0500E+00	-6.4253E-08	-5.1859E-04	-1.6095E-02	7.3187E-01	3.6433E+00	-2.7556E-08
9.8000E-01	5.0500E+00	-6.4398E-08	-5.211E-04	-1.6025E-02	7.3171E-01	3.6425E+00	-2.7421E-08
9.9000E+00	5.0500E+00	-6.4378E-08	-5.2601E-04	-1.5944E-02	7.3155E-01	3.6418E+00	-2.7242E-08
1.0000E+00	5.0500E+00	-5.2743E-04	-5.2743E-04	-1.5884E-02	7.3139E-01	3.6411E+00	-2.7030E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	B VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
0.000E+00	6.378E-10	3.658E-08	7.589E-03	4.449E+00	7.2429E+02	3.3908E+01	4.0927E+03
1.000E-02	7.737E-10	3.707E-08	7.834E-03	4.4783E+00	7.2906E+02	4.6611E+01	4.3534E+03
2.000E-02	7.719E-10	3.633E-08	7.829E-03	4.4689E+00	7.2764E+02	5.6337E+01	4.8529E+03
3.000E-02	8.2913E-10	3.6013E-08	7.8024E-03	4.4512E+00	7.2478E+02	6.0718E+01	5.3986E+03
4.000E-02	9.0681E-10	3.5921E-08	7.5725E-03	4.4341E+00	7.2199E+02	6.2426E+01	5.9121E+03
5.000E-02	9.7655E-10	3.5944E-08	7.5481E-03	4.4211E+00	7.1983E+02	6.5202E+01	6.3648E+03
6.000E-02	1.0343E-09	3.6027E-08	7.5319E-03	4.4131E+00	7.1845E+02	6.6428E+01	6.7505E+03
7.000E-02	1.0834E-09	3.6142E-08	7.5242E-03	4.4099E+00	7.1792E+02	6.7306E+01	7.0729E+03
8.000E-02	1.1240E-09	3.6273E-08	7.5240E-03	4.4110E+00	7.1809E+02	6.7949E+01	7.3390E+03
9.000E-02	1.1572E-09	3.6413E-08	7.5302E-03	4.4187E+00	7.1883E+02	6.8424E+01	7.5566E+03
1.000E-01	1.1843E-09	3.6556E-08	7.5417E-03	4.4325E+00	7.2003E+02	6.8773E+01	7.7333E+03
1.200E-01	1.2081E-09	3.6700E-08	7.5574E-03	4.4300E+00	7.2162E+02	6.9025E+01	7.8758E+03
1.300E-01	1.2366E-09	3.6844E-08	7.5762E-03	4.4466E+00	7.2348E+02	6.9203E+01	7.9900E+03
1.400E-01	1.2755E-09	3.6986E-08	7.5975E-03	4.4574E+00	7.2557E+02	6.9371E+01	8.0807E+03
1.500E-01	1.2485E-09	3.7125E-08	7.6205E-03	4.4574E+00	7.2781E+02	6.9393E+01	8.1521E+03
1.600E-01	1.2637E-09	3.7392E-08	7.6450E-03	4.4656E+00	7.3015E+02	6.9427E+01	8.2076E+03
1.700E-01	1.2666E-09	3.7520E-08	7.6700E-03	4.4754E+00	7.3255E+02	6.9432E+01	8.2503E+03
1.800E-01	1.2723E-09	3.7643E-08	7.6956E-03	4.4854E+00	7.3500E+02	6.9414E+01	8.2823E+03
1.900E-01	1.2782E-09	3.7762E-08	7.7212E-03	4.4961E+00	7.3745E+02	6.9377E+01	8.3058E+03
2.000E-01	1.2875E-09	3.7875E-08	7.7467E-03	4.5085E+00	7.3988E+02	6.9326E+01	8.3222E+03
2.100E-01	1.2984E-09	3.7984E-08	7.7966E-03	4.5245E+00	7.4227E+02	6.9263E+01	8.3305E+03
2.200E-01	1.2777E-09	3.8088E-08	7.7966E-03	4.5454E+00	7.4462E+02	6.9193E+01	8.3392E+03
2.300E-01	1.2782E-09	3.8187E-08	7.8207E-03	4.5601E+00	7.4691E+02	6.9116E+01	8.3473E+03
2.400E-01	1.2782E-09	3.8281E-08	7.8442E-03	4.5685E+00	7.4913E+02	6.9025E+01	8.3413E+03
2.500E-01	1.2778E-09	3.8370E-08	7.8668E-03	4.6021E+00	7.5127E+02	6.8851E+01	8.3386E+03
2.600E-01	1.2722E-09	3.8454E-08	7.8887E-03	4.6153E+00	7.5330E+02	6.8655E+01	8.3340E+03
2.700E-01	1.2764E-09	3.8534E-08	7.9096E-03	4.6401E+00	7.5531E+02	6.8779E+01	8.3281E+03
2.800E-01	1.2754E-09	3.8534E-08	7.9297E-03	4.6517E+00	7.5721E+02	6.8693E+01	8.3210E+03
2.900E-01	1.2743E-09	3.8609E-08	7.9489E-03	4.6627E+00	7.5901E+02	6.8608E+01	8.3131E+03
3.000E-01	1.2730E-09	3.8679E-08	7.9671E-03	4.6733E+00	7.6073E+02	6.8524E+01	8.3047E+03
3.100E-01	1.2717E-09	3.8745E-08	7.9844E-03	4.6833E+00	7.6236E+02	6.8441E+01	8.2959E+03
3.200E-01	1.2704E-09	3.8807E-08	8.0008E-03	4.6927E+00	7.6391E+02	6.8361E+01	8.2869E+03
3.300E-01	1.2691E-09	3.8864E-08	8.0163E-03	4.7016E+00	7.6536E+02	6.8284E+01	8.2777E+03
3.400E-01	1.2677E-09	3.8918E-08	8.0308E-03	4.7100E+00	7.6673E+02	6.8209E+01	8.2685E+03
3.500E-01	1.2664E-09	3.8967E-08	8.0446E-03	4.7179E+00	7.6802E+02	6.8137E+01	8.2594E+03
3.600E-01	1.2651E-09	3.9013E-08	8.0574E-03	4.7253E+00	7.6922E+02	6.8061E+01	8.2505E+03
3.700E-01	1.2638E-09	3.9055E-08	8.0694E-03	4.7322E+00	7.7035E+02	6.8002E+01	8.2417E+03
3.800E-01	1.2623E-09	3.9094E-08	8.0806E-03	4.7386E+00	7.7140E+02	6.7936E+01	8.2332E+03
3.900E-01	1.2610E-09	3.9130E-08	8.0910E-03	4.7446E+00	7.7237E+02	6.7876E+01	8.2250E+03
4.000E-01	1.2590E-09	3.9162E-08	8.1006E-03	4.7501E+00	7.7327E+02	6.7825E+01	8.2170E+03
4.100E-01	1.2579E-09	3.9191E-08	8.1095E-03	4.7552E+00	7.7410E+02	6.7769E+01	8.2094E+03
4.200E-01	1.2568E-09	3.9217E-08	8.1177E-03	4.7598E+00	7.7487E+02	6.7719E+01	8.2021E+03
4.300E-01	1.2559E-09	3.9241E-08	8.1252E-03	4.7641E+00	7.7557E+02	6.7671E+01	8.1951E+03
4.400E-01	1.2559E-09	3.9262E-08	8.1321E-03	4.7680E+00	7.7621E+02	6.7626E+01	8.1885E+03
4.500E-01	1.2549E-09	3.9281E-08	8.1383E-03	4.7716E+00	7.7679E+02	6.7585E+01	8.1822E+03
4.600E-01	1.2540E-09	3.9297E-08	8.1439E-03	4.7748E+00	7.7731E+02	6.7546E+01	8.1763E+03
4.700E-01	1.2532E-09	3.9311E-08	8.1490E-03	4.7777E+00	7.7778E+02	6.7510E+01	8.1707E+03
4.800E-01	1.2524E-09	3.9323E-08	8.1535E-03	4.7802E+00	7.7820E+02	6.7476E+01	8.1654E+03







4.8000E-01	4.6706E+00	3.9433E+01	9.7051E-06	1.0000E+01	-5.3564E-07	8.2349E-06	8.4322E-07
4.9000E-01	4.5097E+00	3.9479E+01	9.7165E-06	1.0000E+01	-5.5410E-07	8.2295E-06	8.3245E-07
5.0000E-01	4.3511E+00	3.9523E+01	9.7276E-06	1.0000E+01	-5.7019E-07	8.2238E-06	8.2306E-07
5.1000E-01	4.1950E+00	3.9566E+01	9.7391E-06	1.0000E+01	-5.8404E-07	8.2181E-06	8.1499E-07
5.2000E-01	4.0417E+00	3.9607E+01	9.7504E-06	1.0000E+01	-5.9578E-07	8.2122E-06	8.0814E-07
5.3000E-01	3.8912E+00	3.9647E+01	9.7615E-06	1.0000E+01	-6.0553E-07	8.2062E-06	8.0246E-07
5.4000E-01	3.7439E+00	3.9685E+01	9.7725E-06	1.0000E+01	-6.1340E-07	8.2001E-06	7.9786E-07
5.5000E-01	3.5997E+00	3.9722E+01	9.7835E-06	1.0000E+01	-6.1952E-07	8.1939E-06	7.9429E-07
5.6000E-01	3.4586E+00	3.9757E+01	9.7943E-06	1.0000E+01	-6.2400E-07	8.1877E-06	7.9166E-07
5.7000E-01	3.3212E+00	3.9791E+01	9.8050E-06	1.0000E+01	-6.2694E-07	8.1814E-06	7.8993E-07
5.8000E-01	3.1871E+00	3.9824E+01	9.8155E-06	1.0000E+01	-6.2845E-07	8.1751E-06	7.8903E-07
5.9000E-01	3.0564E+00	3.9855E+01	9.8258E-06	1.0000E+01	-6.2863E-07	8.1689E-06	7.8890E-07
6.0000E-01	2.9292E+00	3.9885E+01	9.8359E-06	1.0000E+01	-6.2759E-07	8.1626E-06	7.8948E-07
6.1000E-01	2.8066E+00	3.9913E+01	9.8458E-06	1.0000E+01	-6.2537E-07	8.1563E-06	7.9073E-07
6.2000E-01	2.6889E+00	3.9941E+01	9.8555E-06	1.0000E+01	-6.2211E-07	8.1501E-06	7.9258E-07
6.3000E-01	2.5869E+00	3.9967E+01	9.8650E-06	1.0000E+01	-6.1788E-07	8.1439E-06	7.9500E-07
6.4000E-01	2.4999E+00	4.0016E+01	9.8743E-06	1.0000E+01	-6.1276E-07	8.1377E-06	7.9794E-07
6.5000E-01	2.4284E+00	4.0061E+01	9.8921E-06	1.0000E+01	-6.0681E-07	8.1316E-06	8.0134E-07
6.6000E-01	2.3717E+00	4.0099E+01	9.9007E-06	1.0000E+01	-6.0012E-07	8.1255E-06	8.0518E-07
6.7000E-01	2.3294E+00	4.0139E+01	9.9091E-06	1.0000E+01	-5.9275E-07	8.1195E-06	8.0940E-07
6.8000E-01	2.2999E+00	4.0172E+01	9.9172E-06	1.0000E+01	-5.8477E-07	8.1132E-06	8.1386E-07
6.9000E-01	2.2816E+00	4.0202E+01	9.9251E-06	1.0000E+01	-5.7621E-07	8.1075E-06	8.1888E-07
7.0000E-01	1.8503E+00	4.0121E+01	9.9251E-06	1.0000E+01	-5.6714E-07	8.1022E-06	8.2406E-07
7.1000E-01	1.7511E+00	4.0139E+01	9.9328E-06	1.0000E+01	-5.5774E-07	8.0966E-06	8.2949E-07
7.2000E-01	1.6751E+00	4.0156E+01	9.9402E-06	1.0000E+01	-5.4796E-07	8.0911E-06	8.3514E-07
7.3000E-01	1.5922E+00	4.0172E+01	9.9474E-06	1.0000E+01	-5.3790E-07	8.0856E-06	8.4098E-07
7.4000E-01	1.5124E+00	4.0188E+01	9.9544E-06	1.0000E+01	-5.2722E-07	8.0803E-06	8.4700E-07
7.5000E-01	1.4357E+00	4.0203E+01	9.9611E-06	1.0000E+01	-5.1649E-07	8.0751E-06	8.5315E-07
7.6000E-01	1.3619E+00	4.0217E+01	9.9676E-06	1.0000E+01	-5.0555E-07	8.0700E-06	8.5942E-07
7.7000E-01	1.2910E+00	4.0230E+01	9.9739E-06	1.0000E+01	-4.9444E-07	8.0650E-06	8.6579E-07
7.8000E-01	1.2229E+00	4.0242E+01	9.9800E-06	1.0000E+01	-4.8320E-07	8.0601E-06	8.7224E-07
7.9000E-01	1.1575E+00	4.0254E+01	9.9858E-06	1.0000E+01	-4.7185E-07	8.0553E-06	8.7874E-07
8.0000E-01	1.0949E+00	4.0266E+01	9.9915E-06	1.0000E+01	-4.6044E-07	8.0506E-06	8.8529E-07
8.1000E-01	1.0347E+00	4.0276E+01	9.9969E-06	1.0000E+01	-4.4898E-07	8.0461E-06	8.9186E-07
8.2000E-01	9.7719E-01	4.0286E+01	1.0002E-05	1.0000E+01	-4.3750E-07	8.0417E-06	8.9844E-07
8.3000E-01	9.2209E-01	4.0296E+01	1.0007E-05	1.0000E+01	-4.2603E-07	8.0374E-06	9.0501E-07
8.4000E-01	8.6839E-01	4.0305E+01	1.0012E-05	1.0000E+01	-4.1459E-07	8.0331E-06	9.1156E-07
8.5000E-01	8.1697E-01	4.0313E+01	1.0017E-05	1.0000E+01	-4.0320E-07	8.0291E-06	9.1808E-07
8.6000E-01	7.6802E-01	4.0321E+01	1.0021E-05	1.0000E+01	-3.9189E-07	8.0251E-06	9.2457E-07
8.7000E-01	7.2480E-01	4.0329E+01	1.0025E-05	1.0000E+01	-3.8066E-07	8.0212E-06	9.3100E-07
8.8000E-01	6.8690E-01	4.0336E+01	1.0030E-05	1.0000E+01	-3.6953E-07	8.0175E-06	9.3737E-07
8.9000E-01	6.5390E-01	4.0342E+01	1.0034E-05	1.0000E+01	-3.5853E-07	8.0138E-06	9.4367E-07
9.0000E-01	5.9911E-01	4.0348E+01	1.0037E-05	1.0000E+01	-3.4766E-07	8.0103E-06	9.4989E-07
9.1000E-01	5.4898E-01	4.0354E+01	1.0044E-05	1.0000E+01	-3.3693E-07	8.0069E-06	9.5604E-07
9.2000E-01	4.9043E-01	4.0360E+01	1.0048E-05	1.0000E+01	-3.2635E-07	8.0036E-06	9.6209E-07
9.3000E-01	4.5768E-01	4.0365E+01	1.0051E-05	1.0000E+01	-3.1594E-07	8.0004E-06	9.6805E-07
9.4000E-01	4.2656E-01	4.0370E+01	1.0054E-05	1.0000E+01	-3.0571E-07	7.9972E-06	9.7390E-07
9.5000E-01	3.9702E-01	4.0374E+01	1.0057E-05	1.0000E+01	-2.9565E-07	7.9942E-06	9.7966E-07
9.6000E-01	3.6899E-01	4.0378E+01	1.0059E-05	1.0000E+01	-2.8578E-07	7.9913E-06	9.8531E-07
9.7000E-01	3.4239E-01	4.0382E+01	1.0062E-05	1.0000E+01	-2.7610E-07	7.9885E-06	9.9084E-07
9.8000E-01	3.1720E-01	4.0386E+01	1.0064E-05	1.0000E+01	-2.6662E-07	7.9858E-06	9.9626E-07
1.0000E+00	2.9334E-01	4.0392E+01	1.0067E-05	1.0000E+01	-2.5734E-07	7.9832E-06	1.0016E-06
							1.0068E-06
							1.0068E-06

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE
0.000E+00	3.0156E+00	1.6897E+02	2.6417E+02	6.9039E+02	7.1200E+03
1.000E-02	3.2111E+00	1.7794E+02	2.6437E+02	6.8025E+02	7.1200E+03
2.000E-02	3.6679E+00	2.0255E+02	2.6468E+02	6.7131E+02	7.1200E+03
3.000E-02	4.2027E+00	2.3235E+02	2.6507E+02	6.6407E+02	7.1200E+03
4.000E-02	4.7091E+00	2.6103E+02	2.6563E+02	6.5858E+02	7.1200E+03
5.000E-02	5.1342E+00	2.8535E+02	2.6631E+02	6.5463E+02	7.1200E+03
6.000E-02	5.4888E+00	3.0411E+02	2.6710E+02	6.5207E+02	7.1200E+03
7.000E-02	5.6827E+00	3.1719E+02	2.6795E+02	6.5064E+02	7.1200E+03
8.000E-02	5.8156E+00	3.2512E+02	2.6888E+02	6.5014E+02	7.1200E+03
9.000E-02	5.8634E+00	3.2863E+02	2.6979E+02	6.5040E+02	7.1200E+03
1.000E-01	5.8634E+00	3.2852E+02	2.7073E+02	6.5126E+02	7.1200E+03
1.200E-01	5.8059E+00	3.2555E+02	2.7185E+02	6.5259E+02	7.1200E+03
1.400E-01	5.7102E+00	3.2038E+02	2.7258E+02	6.5428E+02	7.1200E+03
1.600E-01	5.5860E+00	3.1356E+02	2.7343E+02	6.5625E+02	7.1200E+03
1.800E-01	5.4414E+00	3.0556E+02	2.7437E+02	6.5841E+02	7.1200E+03
2.000E-01	5.2826E+00	2.9674E+02	2.7566E+02	6.6072E+02	7.1200E+03
2.200E-01	5.1147E+00	2.8726E+02	2.7718E+02	6.6315E+02	7.1200E+03
2.400E-01	4.9417E+00	2.771E+02	2.7891E+02	6.6559E+02	7.1200E+03
2.600E-01	4.7655E+00	2.671E+02	2.7777E+02	6.6807E+02	7.1200E+03
2.800E-01	4.5915E+00	2.5810E+02	2.7777E+02	6.7055E+02	7.1200E+03
3.000E-01	4.4184E+00	2.4888E+02	2.7833E+02	6.7301E+02	7.1200E+03
3.200E-01	4.2485E+00	2.3886E+02	2.7884E+02	6.7543E+02	7.1200E+03
3.400E-01	4.0829E+00	2.2856E+02	2.7930E+02	6.7778E+02	7.1200E+03
3.600E-01	3.9222E+00	2.2053E+02	2.7972E+02	6.8009E+02	7.1200E+03
3.800E-01	3.7670E+00	2.1181E+02	2.8010E+02	6.8232E+02	7.1200E+03
4.000E-01	3.6177E+00	2.0341E+02	2.8043E+02	6.8447E+02	7.1200E+03
4.200E-01	3.4745E+00	1.9536E+02	2.8073E+02	6.8653E+02	7.1200E+03
4.400E-01	3.3375E+00	1.8765E+02	2.8098E+02	6.8851E+02	7.1200E+03
4.600E-01	3.2068E+00	1.8030E+02	2.8120E+02	6.9041E+02	7.1200E+03
4.800E-01	3.0825E+00	1.7330E+02	2.8139E+02	6.921E+02	7.1200E+03
5.000E-01	2.9646E+00	1.6666E+02	2.8154E+02	6.9392E+02	7.1200E+03
5.200E-01	2.8529E+00	1.6037E+02	2.8166E+02	6.9554E+02	7.1200E+03
5.400E-01	2.7473E+00	1.5443E+02	2.8175E+02	6.9708E+02	7.1200E+03
5.600E-01	2.6478E+00	1.4882E+02	2.8181E+02	6.9852E+02	7.1200E+03
5.800E-01	2.5542E+00	1.4355E+02	2.8185E+02	6.9986E+02	7.1200E+03
6.000E-01	2.4664E+00	1.3860E+02	2.8187E+02	7.0116E+02	7.1200E+03
6.200E-01	2.3842E+00	1.3396E+02	2.8186E+02	7.0235E+02	7.1200E+03
6.400E-01	2.3074E+00	1.2963E+02	2.8183E+02	7.0346E+02	7.1200E+03
6.600E-01	2.2359E+00	1.2560E+02	2.8177E+02	7.0449E+02	7.1200E+03
6.800E-01	2.1694E+00	1.2185E+02	2.8171E+02	7.0545E+02	7.1200E+03
7.000E-01	2.1079E+00	1.1837E+02	2.8162E+02	7.0634E+02	7.1200E+03
7.200E-01	2.0510E+00	1.1516E+02	2.8152E+02	7.0715E+02	7.1200E+03
7.400E-01	1.9986E+00	1.1221E+02	2.8140E+02	7.0790E+02	7.1200E+03
7.600E-01	1.9506E+00	1.0949E+02	2.8127E+02	7.0858E+02	7.1200E+03
7.800E-01	1.9087E+00	1.0701E+02	2.8113E+02	7.0920E+02	7.1200E+03
8.000E-01	1.8688E+00	1.0475E+02	2.8098E+02	7.0977E+02	7.1200E+03
8.200E-01	1.8305E+00	1.0271E+02	2.8081E+02	7.1027E+02	7.1200E+03
8.400E-01	1.7980E+00	1.0086E+02	2.8064E+02	7.1073E+02	7.1200E+03

3.1000E+02  
1.7140E+00  
1.8500E-06  
5.6000E+04

0.0000E+00  
2.5600E+01  
2.5500E-10  
1.7000E+08  
5.2090E-08

1.0000E+01  
5.3190E+06  
1.7760E-02  
5.5611E-01  
3.2250E-07

6.0500E+01  
1.6940E+03  
2.7800E+01  
2.0000E+01  
6.4300E-02

1.0000E+00  
5.0000E+00  
3.1840E+02  
8.3283E-09  
8.2600E+01

4.8000E-01	1.7688E+00	9.9709E+01	2.8046E+02	7.1113E+02	7.1200E+03
4.9000E-01	1.7425E+00	9.7737E+01	2.8028E+02	7.1148E+02	7.1200E+03
5.0000E-01	1.7195E+00	9.6437E+01	2.8008E+02	7.1179E+02	7.1200E+03
5.1000E-01	1.6995E+00	9.5300E+01	2.7989E+02	7.1206E+02	7.1200E+03
5.2000E-01	1.6826E+00	9.4316E+01	2.7968E+02	7.1228E+02	7.1200E+03
5.3000E-01	1.6678E+00	9.3478E+01	2.7948E+02	7.1247E+02	7.1200E+03
5.4000E-01	1.6556E+00	9.2776E+01	2.7927E+02	7.1262E+02	7.1200E+03
5.5000E-01	1.6452E+00	9.2202E+01	2.7906E+02	7.1274E+02	7.1200E+03
5.6000E-01	1.6377E+00	9.1748E+01	2.7884E+02	7.1283E+02	7.1200E+03
5.7000E-01	1.6318E+00	9.1407E+01	2.7863E+02	7.1288E+02	7.1200E+03
5.8000E-01	1.6277E+00	9.1171E+01	2.7841E+02	7.1291E+02	7.1200E+03
5.9000E-01	1.6254E+00	9.1033E+01	2.7819E+02	7.1292E+02	7.1200E+03
6.0000E-01	1.6247E+00	9.0986E+01	2.7798E+02	7.1290E+02	7.1200E+03
6.1000E-01	1.6256E+00	9.1023E+01	2.7778E+02	7.1285E+02	7.1200E+03
6.2000E-01	1.6278E+00	9.1139E+01	2.7754E+02	7.1279E+02	7.1200E+03
6.3000E-01	1.6312E+00	9.1326E+01	2.7733E+02	7.1271E+02	7.1200E+03
6.4000E-01	1.6359E+00	9.1583E+01	2.7712E+02	7.1261E+02	7.1200E+03
6.5000E-01	1.6417E+00	9.1899E+01	2.7691E+02	7.1250E+02	7.1200E+03
6.6000E-01	1.6484E+00	9.2271E+01	2.7670E+02	7.1237E+02	7.1200E+03
6.7000E-01	1.6561E+00	9.2695E+01	2.7649E+02	7.1223E+02	7.1200E+03
6.8000E-01	1.6645E+00	9.3165E+01	2.7629E+02	7.1207E+02	7.1200E+03
6.9000E-01	1.6738E+00	9.3677E+01	2.7609E+02	7.1191E+02	7.1200E+03
7.0000E-01	1.6837E+00	9.4226E+01	2.7589E+02	7.1174E+02	7.1200E+03
7.1000E-01	1.6941E+00	9.4812E+01	2.7570E+02	7.1155E+02	7.1200E+03
7.2000E-01	1.7052E+00	9.5426E+01	2.7551E+02	7.1137E+02	7.1200E+03
7.3000E-01	1.7176E+00	9.6066E+01	2.7532E+02	7.1117E+02	7.1200E+03
7.4000E-01	1.7306E+00	9.6732E+01	2.7513E+02	7.1097E+02	7.1200E+03
7.5000E-01	1.7448E+00	9.7417E+01	2.7495E+02	7.1076E+02	7.1200E+03
7.6000E-01	1.7534E+00	9.8120E+01	2.7478E+02	7.1055E+02	7.1200E+03
7.7000E-01	1.7662E+00	9.8837E+01	2.7460E+02	7.1034E+02	7.1200E+03
7.8000E-01	1.7793E+00	9.9566E+01	2.7443E+02	7.1012E+02	7.1200E+03
7.9000E-01	1.7925E+00	1.0030E+02	2.7427E+02	7.0991E+02	7.1200E+03
8.0000E-01	1.8058E+00	1.0105E+02	2.7411E+02	7.0969E+02	7.1200E+03
8.1000E-01	1.8192E+00	1.0180E+02	2.7395E+02	7.0947E+02	7.1200E+03
8.2000E-01	1.8327E+00	1.0256E+02	2.7380E+02	7.0925E+02	7.1200E+03
8.3000E-01	1.8462E+00	1.0331E+02	2.7365E+02	7.0903E+02	7.1200E+03
8.4000E-01	1.8598E+00	1.0407E+02	2.7350E+02	7.0881E+02	7.1200E+03
8.5000E-01	1.8732E+00	1.0483E+02	2.7336E+02	7.0859E+02	7.1200E+03
8.6000E-01	1.8867E+00	1.0558E+02	2.7322E+02	7.0837E+02	7.1200E+03
8.7000E-01	1.9000E+00	1.0633E+02	2.7309E+02	7.0815E+02	7.1200E+03
8.8000E-01	1.9132E+00	1.0707E+02	2.7298E+02	7.0794E+02	7.1200E+03
8.9000E-01	1.9264E+00	1.0780E+02	2.7283E+02	7.0773E+02	7.1200E+03
9.0000E-01	1.9394E+00	1.0853E+02	2.7271E+02	7.0752E+02	7.1200E+03
9.1000E-01	1.9522E+00	1.0925E+02	2.7259E+02	7.0731E+02	7.1200E+03
9.2000E-01	1.9649E+00	1.0996E+02	2.7248E+02	7.0711E+02	7.1200E+03
9.3000E-01	1.9773E+00	1.1066E+02	2.7237E+02	7.0691E+02	7.1200E+03
9.4000E-01	1.9896E+00	1.1135E+02	2.7226E+02	7.0671E+02	7.1200E+03
9.5000E-01	2.0017E+00	1.1203E+02	2.7215E+02	7.0652E+02	7.1200E+03
9.6000E-01	2.0136E+00	1.1270E+02	2.7205E+02	7.0633E+02	7.1200E+03
9.7000E-01	2.0253E+00	1.1335E+02	2.7196E+02	7.0615E+02	7.1200E+03
9.8000E-01	2.0367E+00	1.1399E+02	2.7186E+02	7.0596E+02	7.1200E+03
9.9000E-01	2.0479E+00	1.1462E+02	2.7177E+02	7.0579E+02	7.1200E+03
1.0000E+00	2.0589E+00	1.1524E+02	2.7168E+02	7.0561E+02	7.1200E+03

Appendix #20.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.000E+00	5.0500E+00	-6.4378E-08	-5.2743E-04	-1.5894E-02	7.3139E-01	3.6411E+00	2.7030E-08
1.000E-02	5.0500E+00	-2.3114E-06	-6.8933E-02	-1.2892E+00	7.2418E-01	2.3217E+00	-2.0324E-05
2.000E-02	5.0500E+00	-4.2836E-06	-1.9775E-02	-1.9917E+00	7.0737E-01	1.5451E+00	-2.6680E-05
3.000E-02	5.0500E+00	-5.9363E-06	-3.3725E-02	-2.3676E+00	6.8539E-01	1.0593E+00	-2.6842E-05
4.000E-02	5.0500E+00	-7.2471E-06	-4.6452E-02	-2.5709E+00	6.6059E-01	7.3203E-01	-2.4538E-05
5.000E-02	5.0500E+00	-8.2606E-06	-5.7193E-02	-2.6760E+00	6.3429E-01	4.9543E-01	-2.1483E-05
6.000E-02	5.0500E+00	-9.0192E-06	-6.5702E-02	-2.7222E+00	6.0726E-01	3.1413E-01	-1.8428E-05
7.000E-02	5.0500E+00	-9.5644E-06	-7.2252E-02	-2.7307E+00	5.7997E-01	1.6813E-01	-1.5665E-05
8.000E-02	5.0500E+00	-9.9331E-06	-7.7056E-02	-2.7138E+00	5.5273E-01	4.9849E-02	-1.3274E-05
9.000E-02	5.0500E+00	-1.0157E-05	-8.0382E-02	-2.6787E+00	5.2576E-01	4.9849E-02	-1.1548E-05
1.000E-01	5.0500E+00	-1.0262E-05	-8.2479E-02	-2.6301E+00	4.9920E-01	1.3409E-01	-9.5442E-06
1.100E-01	5.0500E+00	-1.0271E-05	-8.3584E-02	-2.5712E+00	4.7319E-01	2.0524E-01	-8.1114E-06
1.200E-01	5.0500E+00	-1.0202E-05	-8.3821E-02	-2.5043E+00	4.4781E-01	2.6526E-01	-6.9021E-06
1.300E-01	5.0500E+00	-1.0070E-05	-8.3405E-02	-2.4314E+00	4.2312E-01	3.1573E-01	-5.8756E-06
1.400E-01	5.0500E+00	-9.8872E-06	-8.2444E-02	-2.3538E+00	3.9920E-01	3.4773E-01	-4.9848E-06
1.500E-01	5.0500E+00	-9.6641E-06	-8.1048E-02	-2.2727E+00	3.7606E-01	3.0244E-01	-4.2836E-06
1.600E-01	5.0500E+00	-9.4095E-06	-7.9299E-02	-2.1894E+00	3.5375E-01	2.4063E-01	-3.5901E-06
1.700E-01	5.0500E+00	-9.1305E-06	-7.7217E-02	-2.1045E+00	3.3248E-01	1.9431E-01	-3.0213E-06
1.800E-01	5.0500E+00	-8.8331E-06	-7.5042E-02	-2.0189E+00	3.1166E-01	1.4601E-01	-2.5241E-06
1.900E-01	5.0500E+00	-8.5225E-06	-7.2646E-02	-1.9332E+00	2.9180E-01	1.0692E-01	-2.0879E-06
2.000E-01	5.0500E+00	-8.2029E-06	-7.0132E-02	-1.8480E+00	2.7299E-01	7.744E-02	-1.7044E-06
2.100E-01	5.0500E+00	-7.8778E-06	-6.7537E-02	-1.7638E+00	2.5494E-01	5.8892E-02	-1.3667E-06
2.200E-01	5.0500E+00	-7.5504E-06	-6.4891E-02	-1.6808E+00	2.3772E-01	4.8193E-01	-1.0692E-06
2.300E-01	5.0500E+00	-7.2230E-06	-6.2200E-02	-1.5990E+00	2.2132E-01	4.9242E-01	-8.0714E-07
2.400E-01	5.0500E+00	-6.8978E-06	-5.9546E-02	-1.5194E+00	2.0573E-01	4.9072E-01	-5.7655E-07
2.500E-01	5.0500E+00	-6.5766E-06	-5.6888E-02	-1.4418E+00	1.9093E-01	4.8715E-01	-3.7394E-07
2.600E-01	5.0500E+00	-6.2807E-06	-5.4255E-02	-1.3664E+00	1.7689E-01	4.8197E-01	-1.9632E-07
2.700E-01	5.0500E+00	-5.9513E-06	-5.1685E-02	-1.2934E+00	1.6359E-01	4.7542E-01	-4.1033E-08
2.800E-01	5.0500E+00	-5.6494E-06	-4.9126E-02	-1.2228E+00	1.5101E-01	4.6771E-01	9.4249E-08
2.900E-01	5.0500E+00	-5.3575E-06	-4.6647E-02	-1.1547E+00	1.3913E-01	4.5902E-01	2.1161E-07
3.000E-01	5.0500E+00	-5.0707E-06	-4.4233E-02	-1.0891E+00	1.2791E-01	4.4953E-01	3.1292E-07
3.100E-01	5.0500E+00	-4.7949E-06	-4.1890E-02	-1.0261E+00	1.1734E-01	4.3938E-01	3.9985E-07
3.200E-01	5.0500E+00	-4.5286E-06	-3.9622E-02	-9.6580E-01	1.0738E-01	4.2869E-01	4.7391E-07
3.300E-01	5.0500E+00	-4.2721E-06	-3.7430E-02	-9.0787E-01	9.8017E-02	4.1756E-01	5.3645E-07
3.400E-01	5.0500E+00	-4.0253E-06	-3.5317E-02	-8.5225E-01	9.9220E-02	4.0615E-01	5.8672E-07
3.500E-01	5.0500E+00	-3.7884E-06	-3.3285E-02	-7.9930E-01	9.0664E-02	3.948E-01	6.3182E-07
3.600E-01	5.0500E+00	-3.5613E-06	-3.1333E-02	-7.4876E-01	7.3226E-02	3.8265E-01	6.6675E-07
3.700E-01	5.0500E+00	-3.3439E-06	-2.9461E-02	-7.0063E-01	5.5861E-02	3.7073E-01	6.9442E-07
3.800E-01	5.0500E+00	-3.1362E-06	-2.7658E-02	-6.5480E-01	5.9205E-02	3.5878E-01	7.1566E-07
3.900E-01	5.0500E+00	-2.9395E-06	-2.5955E-02	-6.1122E-01	5.2877E-02	3.4684E-01	7.3121E-07
4.000E-01	5.0500E+00	-2.7489E-06	-2.4319E-02	-5.6982E-01	4.6974E-02	3.3496E-01	7.4172E-07
4.100E-01	5.0500E+00	-2.5689E-06	-2.2760E-02	-5.3054E-01	4.1474E-02	3.2317E-01	7.4782E-07
4.200E-01	5.0500E+00	-2.3995E-06	-2.1274E-02	-4.9330E-01	3.6356E-02	3.1152E-01	7.5003E-07
4.300E-01	5.0500E+00	-2.2350E-06	-1.9861E-02	-4.5803E-01	3.1601E-02	3.0003E-01	7.4885E-07
4.400E-01	5.0500E+00	-2.0807E-06	-1.8518E-02	-4.2466E-01	2.7189E-02	2.8872E-01	7.4472E-07
4.500E-01	5.0500E+00	-1.9343E-06	-1.7243E-02	-3.9312E-01	2.3102E-02	-2.7761E-01	7.3803E-07

4.6000E-01	5.0500E+00	-1.7857E-08	-1.6034E-02	-3.6333E-01	1.9321E-02	-2.4673E-01	7.2914E-07
4.7000E-01	5.0500E+00	-1.6645E-06	-1.4889E-02	-3.3522E-01	1.5829E-02	-2.4673E-01	7.1846E-07
4.8000E-01	5.0500E+00	-1.5405E-06	-1.3804E-02	-3.0872E-01	1.2611E-02	-2.4567E-01	7.0598E-07
4.9000E-01	5.0500E+00	-1.4234E-06	-1.2779E-02	-2.8376E-01	9.6498E-03	-2.4567E-01	6.9298E-07
5.0000E-01	5.0500E+00	-1.3129E-06	-1.1811E-02	-2.6028E-01	6.9308E-03	-2.4567E-01	6.7740E-07
5.1000E-01	5.0500E+00	-1.2087E-06	-1.0897E-02	-2.3820E-01	4.4395E-03	-2.4606E-01	6.6163E-07
5.2000E-01	5.0500E+00	-1.1066E-06	-1.0036E-02	-2.1746E-01	2.1623E-03	-2.4665E-01	6.4512E-07
5.3000E-01	5.0500E+00	-1.0128E-06	-9.2244E-03	-1.9800E-01	8.6012E-05	-1.9752E-01	6.2803E-07
5.4000E-01	5.0500E+00	-9.3145E-07	-8.4607E-03	-1.7976E-01	1.8018E-05	-1.8672E-01	6.1050E-07
5.5000E-01	5.0500E+00	-8.4993E-07	-7.7436E-03	-1.6268E-01	3.5131E-03	-1.8672E-01	5.9285E-07
5.6000E-01	5.0500E+00	-7.7177E-07	-7.0681E-03	-1.4670E-01	5.0529E-03	-1.7200E-01	5.7460E-07
5.7000E-01	5.0500E+00	-7.0176E-07	-6.4351E-03	-1.3177E-01	6.4507E-03	-1.6402E-01	5.5643E-07
5.8000E-01	5.0500E+00	-6.3464E-07	-5.8417E-03	-1.1783E-01	7.6978E-03	-1.5631E-01	5.3825E-07
5.9000E-01	5.0500E+00	-5.7186E-07	-5.2880E-03	-1.0482E-01	8.7973E-03	-1.4700E-01	5.2029E-07
6.0000E-01	5.0500E+00	-5.1318E-07	-4.7680E-03	-9.2716E-02	9.7697E-03	-1.3479E-01	5.0298E-07
6.1000E-01	5.0500E+00	-4.5842E-07	-4.2801E-03	-8.1451E-02	1.0667E-02	-1.2117E-01	4.8474E-07
6.2000E-01	5.0500E+00	-4.0737E-07	-3.8264E-03	-7.1851E-02	1.1429E-02	-1.2813E-01	4.6681E-07
6.3000E-01	5.0500E+00	-3.5982E-07	-3.4034E-03	-6.1280E-02	1.2080E-02	-1.2172E-01	4.4924E-07
6.4000E-01	5.0500E+00	-3.1560E-07	-3.0094E-03	-5.0958E-02	1.2657E-02	-1.1556E-01	4.3217E-07
6.5000E+00	5.0500E+00	-2.7453E-07	-2.6429E-03	-3.9598E-02	1.3138E-02	-1.0965E-01	4.1542E-07
6.6000E-01	5.0500E+00	-2.3633E-07	-2.3023E-03	-2.8280E-02	1.3538E-02	-1.0396E-01	3.9902E-07
6.7000E-01	5.0500E+00	-2.0151E-07	-1.9864E-03	-2.7182E-02	1.3865E-02	-9.8507E-02	3.8299E-07
6.8000E-01	5.0500E+00	-1.6831E-07	-1.6937E-03	-2.2658E-02	1.4124E-02	-9.3276E-02	3.6735E-07
6.9000E-01	5.0500E+00	-1.3883E-07	-1.4229E-03	-1.6664E-02	1.4320E-02	-8.8264E-02	3.5210E-07
7.0000E-01	5.0500E+00	-1.1060E-07	-1.1728E-03	-1.1170E-02	1.4459E-02	-8.3463E-02	3.3727E-07
7.1000E-01	5.0500E+00	-8.5044E-08	-9.4223E-04	-6.1438E-03	1.4545E-02	-7.8866E-02	3.2286E-07
7.2000E-01	5.0500E+00	-6.1578E-08	-7.3000E-04	-1.5579E-03	1.4583E-02	-7.4473E-02	3.0886E-07
7.3000E-01	5.0500E+00	-4.0071E-08	-5.3504E-04	2.6153E-03	1.4577E-02	-7.0271E-02	2.9529E-07
7.4000E-01	5.0500E+00	-2.0411E-08	-3.5633E-04	6.4020E-03	1.4532E-02	-6.6258E-02	2.8315E-07
7.5000E-01	5.0500E+00	-2.4814E-09	-1.9288E-04	9.8268E-03	1.4451E-02	-6.2426E-02	2.6643E-07
7.6000E-01	5.0500E+00	1.3825E-09	-4.3760E-05	1.2913E-02	1.4337E-02	-5.8770E-02	2.5113E-07
7.7000E-01	5.0500E+00	2.8611E-08	9.1927E-05	1.5683E-02	1.4183E-02	-5.5289E-02	2.3726E-07
7.8000E-01	5.0500E+00	4.1974E-08	2.1503E-04	1.8159E-02	1.4024E-02	-5.1961E-02	2.2378E-07
7.9000E-01	5.0500E+00	6.4797E-08	3.2634E-04	2.0359E-02	1.3831E-02	-4.8797E-02	2.1208E-07
8.0000E-01	5.0500E+00	7.4428E-08	4.2664E-04	2.2303E-02	1.3618E-02	-4.5765E-02	2.0182E-07
8.1000E-01	5.0500E+00	8.2978E-08	5.1665E-04	2.4009E-02	1.3386E-02	-4.2920E-02	1.9195E-07
8.2000E-01	5.0500E+00	9.0523E-08	6.0850E-04	2.5493E-02	1.3138E-02	-4.0197E-02	1.8246E-07
8.3000E-01	5.0500E+00	9.7132E-08	7.0316E-04	2.6771E-02	1.2877E-02	-3.7610E-02	1.7333E-07
8.4000E-01	5.0500E+00	1.0287E-07	7.8696E-04	2.7867E-02	1.2603E-02	-3.5154E-02	1.6457E-07
8.5000E-01	5.0500E+00	1.0781E-07	8.3512E-04	2.8527E-02	1.2320E-02	-3.2824E-02	1.5617E-07
8.6000E-01	5.0500E+00	1.2000E-07	8.7660E-04	2.8527E-02	1.2028E-02	-3.0615E-02	1.4810E-07
8.7000E-01	5.0500E+00	1.1550E-07	9.1189E-04	3.0128E-02	1.1730E-02	-2.8521E-02	1.4038E-07
8.8000E-01	5.0500E+00	1.1636E-07	9.4145E-04	3.0928E-02	1.1426E-02	-2.6639E-02	1.3297E-07
8.9000E-01	5.0500E+00	1.2064E-07	9.6574E-04	3.1150E-02	1.119E-02	-2.4663E-02	1.2588E-07
9.0000E-01	5.0500E+00	1.2237E-07	9.8515E-04	3.1266E-02	1.0808E-02	-2.2890E-02	1.1910E-07
9.1000E-01	5.0500E+00	1.2625E-07	1.0001E-03	3.1284E-02	1.0496E-02	-2.1214E-02	1.1261E-07
9.2000E-01	5.0500E+00	1.2470E-07	1.0109E-03	3.1215E-02	1.0183E-02	-1.9631E-02	1.0641E-07
9.3000E-01	5.0500E+00	1.2478E-07	1.0179E-03	3.1065E-02	9.8705E-03	-1.8138E-02	1.0049E-07
9.4000E-01	5.0500E+00	1.2477E-07	1.0215E-03	3.0844E-02	9.2494E-03	-1.6730E-02	1.0049E-07
9.5000E-01	5.0500E+00	1.2442E-07	1.0220E-03	3.0557E-02	8.9423E-03	-1.5403E-02	9.4831E-08
9.6000E-01	5.0500E+00	1.2376E-07	1.0196E-03	3.0212E-02	8.9423E-03	-1.4155E-02	8.9431E-08
9.7000E-01	5.0500E+00	1.2282E-07	1.0146E-03	2.9815E-02	8.6385E-03	-1.2980E-02	8.4287E-08
9.8000E-01	5.0500E+00	1.2182E-07	1.0072E-03	2.9372E-02	8.3383E-03	-1.1876E-02	7.9281E-08
1.0000E+00	5.0500E+00	1.2020E-07	9.9776E-04	2.8888E-02	8.0423E-03	-1.0839E-02	7.4707E-08
					-7.7510E-03	-9.8666E-03	7.0236E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
0.0000E+00	1.2488E-09	3.8959E-08	8.1014E-03	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00
1.0000E-02	1.1793E-09	3.8259E-08	8.0255E-03	1.6940E+01	5.3190E+06	2.5600E+01	3.1640E+02
2.0000E-02	1.0361E-09	3.9716E-08	8.0484E-03	2.7800E+01	1.7480E-02	2.5500E-10	8.3283E-09
3.0000E-02	8.7637E-10	4.0289E-08	8.1109E-03	4.7859E+00	4.7268E+00	7.6926E+02	2.3780E+01
4.0000E-02	7.2413E-10	4.0393E-08	8.1734E-03	4.8008E+00	7.8134E+02	7.8134E+02	1.5119E+01
5.0000E-02	5.8824E-10	4.0254E-08	8.2202E-03	4.8249E+00	7.8535E+02	5.8015E+00	4.5933E+03
6.0000E-02	4.7060E-10	3.9992E-08	8.2465E-03	4.8368E+00	7.8738E+02	2.9596E+00	3.7002E+03
7.0000E-02	3.7021E-10	3.9673E-08	8.2630E-03	4.8374E+00	7.8758E+02	7.0575E-01	2.9268E+03
8.0000E-02	2.8502E-10	3.9330E-08	8.2424E-03	4.8285E+00	7.8617E+02	1.1576E+00	2.2675E+03
9.0000E-02	2.1285E-10	3.8982E-08	8.2179E-03	4.8374E+00	7.8617E+02	1.2351E+03	1.7085E+03
1.0000E-01	1.5168E-10	3.8640E-08	8.1821E+00	4.8285E+00	7.8355E+02	4.0913E+00	1.2085E+03
1.1000E-01	9.9697E-11	3.8308E-08	8.1397E-03	4.7899E+00	7.7997E+02	5.2573E+00	8.9330E+02
1.2000E-01	5.5508E-11	3.7890E-08	8.0812E-03	4.7343E+00	7.7096E+02	6.2587E+00	2.0379E+02
1.3000E-01	3.7890E-11	3.7396E-08	8.0390E-03	4.7032E+00	7.6591E+02	7.1131E+00	2.5201E+01
1.4000E-01	-4.1192E-11	3.7122E-08	7.9847E-03	4.6711E+00	7.6069E+02	8.4368E+00	-4.2518E+01
1.5000E-01	-4.1328E-11	3.7122E-08	7.9847E-03	4.6986E+00	7.5541E+02	8.4368E+00	-2.5201E+01
1.6000E-01	-6.4393E-11	3.6852E-08	7.9249E-03	4.6063E+00	7.5014E+02	8.9296E+00	-4.2984E+02
1.7000E-01	-8.3959E-11	3.6616E-08	7.8741E-03	4.5744E+00	7.4494E+02	9.3245E+00	-5.6083E+02
1.8000E-01	-1.0018E-10	3.6385E-08	7.8259E-03	4.5433E+00	7.3987E+02	9.6313E+00	-7.0767E+02
1.9000E-01	-1.1376E-10	3.6167E-08	7.7859E-03	4.5131E+00	7.3495E+02	9.8590E+00	-8.1407E+02
2.0000E-01	-1.2493E-10	3.5982E-08	7.7440E-03	4.4841E+00	7.3022E+02	1.0016E+01	-9.7487E+02
2.1000E-01	-1.3395E-10	3.5771E-08	7.7058E-03	4.4562E+00	7.2568E+02	1.0111E+01	-1.0334E+03
2.2000E-01	-1.4112E-10	3.5591E-08	7.6699E-03	4.4297E+00	7.2135E+02	1.0150E+01	-1.0796E+03
2.3000E-01	-1.4665E-10	3.5424E-08	7.6362E-03	4.4045E+00	7.1723E+02	1.0141E+01	-1.1150E+03
2.4000E-01	-1.5072E-10	3.5268E-08	7.6049E-03	4.3806E+00	7.1334E+02	1.0090E+01	-1.1409E+03
2.5000E-01	-1.5351E-10	3.5123E-08	7.5758E-03	4.3581E+00	7.0967E+02	1.0001E+01	-1.1584E+03
2.6000E-01	-1.5519E-10	3.4989E-08	7.5490E-03	4.3370E+00	7.0621E+02	9.8808E+00	-1.1685E+03
2.7000E-01	-1.5597E-10	3.4865E-08	7.5245E-03	4.3171E+00	7.0297E+02	9.7330E+00	-1.1723E+03
2.8000E-01	-1.5570E-10	3.4750E-08	7.5022E-03	4.2985E+00	6.9994E+02	9.5620E+00	-1.1704E+03
2.9000E-01	-1.5524E-10	3.4645E-08	7.4812E+00	4.2812E+00	6.9711E+02	9.3714E+00	-1.1637E+03
3.0000E-01	-1.5324E-10	3.4549E-08	7.4640E-03	4.2651E+00	6.9448E+02	9.1844E+00	-1.1527E+03
3.1000E-01	-1.5113E-10	3.4461E-08	7.4481E-03	4.2502E+00	6.9204E+02	8.9444E+00	-1.1382E+03
3.2000E-01	-1.4854E-10	3.4381E-08	7.4329E-03	4.2364E+00	6.8979E+02	8.7135E+00	-1.1205E+03
3.3000E-01	-1.4558E-10	3.4309E-08	7.4191E-03	4.2237E+00	6.8771E+02	8.4742E+00	-1.1003E+03
3.4000E-01	-1.4223E-10	3.4244E-08	7.4072E-03	4.2121E+00	6.8581E+02	8.2287E+00	-1.0778E+03
3.5000E-01	-1.3863E-10	3.4185E-08	7.3972E-03	4.2014E+00	6.8407E+02	7.9787E+00	-1.0535E+03
3.6000E-01	-1.3479E-10	3.4133E-08	7.3885E-03	4.1917E+00	6.8248E+02	7.7258E+00	-1.0278E+03
3.7000E-01	-1.3071E-10	3.4088E-08	7.3806E-03	4.1829E+00	6.8103E+02	7.4755E+00	-1.0009E+03
3.8000E-01	-1.2661E-10	3.4047E-08	7.3734E-03	4.1749E+00	6.7973E+02	7.2170E+00	-9.7247E+02
3.9000E-01	-1.2234E-10	3.4012E-08	7.3667E-03	4.1678E+00	6.7856E+02	6.9634E+00	-9.4443E+02
4.0000E-01	-1.1799E-10	3.3983E-08	7.3602E-03	4.1614E+00	6.7752E+02	6.7117E+00	-9.1541E+02
4.1000E-01	-1.1365E-10	3.3958E-08	7.3537E-03	4.1557E+00	6.7659E+02	6.4626E+00	-8.8609E+02
4.2000E-01	-1.0918E-10	3.3937E-08	7.3483E-03	4.1508E+00	6.7578E+02	6.2168E+00	-8.5664E+02
4.3000E-01	-1.0475E-10	3.3921E-08	7.3435E-03	4.1465E+00	6.7507E+02	5.9750E+00	-8.2719E+02
4.4000E-01	-1.0035E-10	3.3908E-08	7.3387E-03	4.1427E+00	6.7446E+02	5.7377E+00	-7.9787E+02
4.5000E-01	-9.5972E-11	3.3898E-08	7.3346E-03	4.1396E+00	6.7395E+02	5.5052E+00	-7.6879E+02
4.6000E-01	-9.1643E-11	3.3893E-08	7.3307E-03	4.1370E+00	6.7352E+02	5.2779E+00	-7.4003E+02
4.7000E-01	-8.7372E-11	3.3891E-08	7.3274E-03	4.1349E+00	6.7318E+02	5.0561E+00	-7.1167E+02

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4. 9000E-01  
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5. 1000E-01  
5. 2000E-01  
5. 3000E-01  
5. 4000E-01  
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5. 6000E-01  
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9. 3000E-01  
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9. 8000E-01  
9. 9000E-01  
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-8. 3170E-11  
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-7. 5004E-11  
-7. 1053E-11  
-6. 7198E-11  
-6. 3447E-11  
-5. 9788E-11  
-5. 6238E-11  
-5. 2795E-11  
-4. 8458E-11  
-4. 4299E-11  
-4. 0307E-11  
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-1. 6591E-11  
-1. 3807E-11  
-1. 1187E-11  
-8. 9046E-12  
-8. 2013E-12  
-8. 5744E-12  
-8. 0212E-12  
-7. 5394E-12  
-7. 1284E-12  
-6. 7849E-12  
-6. 4892E-12  
-6. 2359E-12  
-5. 0267E-12  
-4. 8849E-12  
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-4. 0325E-12  
-3. 7872E-12  
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-3. 2992E-12  
-3. 0682E-12  
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-2. 2427E-12  
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-1. 7255E-12  
-1. 5792E-12  
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-1. 3205E-12  
-1. 2051E-12  
-1. 0977E-12  
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-1. 0000E-13

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-5. 8560E+01  
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-5. 0390E+01  
-4. 6647E+01  
-4. 3118E+01  
-3. 9794E+01  
-3. 6653E+01  
-3. 3718E+01  
-3. 0950E+01



ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	6.9000E-04	0.0000E+00	1.0067E-05	5.3180E+03	2.8800E+01	7.9807E-06	1.0068E-06
3.5816E+05	2.2000E+03	3.3566E+03	1.8900E+01	2.7800E+01	1.7760E-02	3.1640E+02	1.2140E+00
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	1.7000E-10	6.3283E-09	1.6500E-08
1.0000E+03	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	8.2600E+01	5.6000E+04
0.0000E+00	2.9334E-01	4.0322E+01	1.0067E-05	1.0000E+01	-2.4827E-07	7.9807E-06	1.0068E-06
1.0000E-02	1.1882E+02	4.1624E+01	1.0080E-05	1.0000E+01	-1.3528E-06	7.9726E-06	3.4148E-07
3.0000E-02	6.6874E+01	4.3691E+01	1.0114E-05	1.0000E+01	-2.3248E-06	7.9541E-06	3.0997E-07
4.0000E-02	7.1038E+01	4.4479E+01	1.0225E-05	1.0000E+01	-3.1059E-06	7.8926E-06	-8.6373E-07
5.0000E-02	6.6963E+01	4.5118E+01	1.0295E-05	1.0000E+01	-3.6919E-06	7.8927E-06	-1.2907E-06
6.0000E-02	4.4934E+01	4.5625E+01	1.0370E-05	1.0000E+01	-4.0989E-06	7.8536E-06	-1.5896E-06
7.0000E-02	3.4543E+01	4.6021E+01	1.0447E-05	1.0000E+01	-4.4791E-06	7.8112E-06	-1.7733E-06
8.0000E-02	2.5874E+01	4.6322E+01	1.0526E-05	1.0000E+01	-4.5042E-06	7.7669E-06	-1.8601E-06
9.0000E-02	1.8591E+01	4.6543E+01	1.0603E-05	1.0000E+01	-4.4498E-06	7.7219E-06	-1.8696E-06
1.0000E-01	1.2475E+01	4.6697E+01	1.0678E-05	1.0000E+01	-4.3340E-06	7.6771E-06	-1.8196E-06
1.2000E-01	7.3352E+00	4.6796E+01	1.0750E-05	1.0000E+01	-4.1726E-06	7.6332E-06	-1.7255E-06
1.3000E-01	3.0124E+00	4.6847E+01	1.0818E-05	1.0000E+01	-4.0777E-06	7.5906E-06	-1.6001E-06
1.4000E-01	-8.2496E-01	4.6858E+01	1.0887E-05	1.0000E+01	-3.9777E-06	7.5498E-06	-1.4534E-06
1.5000E-01	-3.6845E+00	4.6836E+01	1.0941E-05	1.0000E+01	-3.7592E-06	7.5111E-06	-1.2931E-06
1.6000E-01	-8.2542E+00	4.6786E+01	1.0996E-05	1.0000E+01	-3.5250E-06	7.4747E-06	-1.1251E-06
1.7000E-01	-8.4068E+00	4.6712E+01	1.1045E-05	1.0000E+01	-3.2810E-06	7.4081E-06	-9.5388E-07
1.8000E-01	-1.0201E+01	4.6509E+01	1.1089E-05	1.0000E+01	-3.0322E-06	7.3800E-06	-8.1365E-07
1.9000E-01	-1.1689E+01	4.6199E+01	1.1129E-05	1.0000E+01	-2.7827E-06	7.4091E-06	-6.1365E-07
2.0000E-01	-1.2910E+01	4.6386E+01	1.1183E-05	1.0000E+01	-2.5340E-06	7.3534E-06	-4.4863E-07
2.0000E-01	-1.3901E+01	4.6252E+01	1.1193E-05	1.0000E+01	-2.2897E-06	7.3253E-06	-2.8670E-07
2.0000E-01	-1.4693E+01	4.6109E+01	1.1218E-05	1.0000E+01	-2.0513E-06	7.3076E-06	-1.3464E-07
2.0000E-01	-1.5310E+01	4.5959E+01	1.1239E-05	1.0000E+01	-1.8199E-06	7.2883E-06	1.2045E-08
2.0000E-01	-1.5776E+01	4.5803E+01	1.1255E-05	1.0000E+01	-1.5964E-06	7.2717E-06	1.5406E-08
2.0000E-01	-1.6111E+01	4.5644E+01	1.1268E-05	1.0000E+01	-1.3817E-06	7.2563E-06	2.8824E-07
2.0000E-01	-1.6331E+01	4.5481E+01	1.1271E-05	1.0000E+01	-1.1765E-06	7.2435E-06	4.1556E-07
2.0000E-01	-1.6465E+01	4.5317E+01	1.1282E-05	1.0000E+01	-9.8025E-07	7.2327E-06	5.3603E-07
2.0000E-01	-1.6486E+01	4.5153E+01	1.1284E-05	1.0000E+01	-7.9398E-07	7.2239E-06	6.4976E-07
2.0000E-01	-1.6446E+01	4.4988E+01	1.1283E-05	1.0000E+01	-6.1742E-07	7.2168E-06	7.5687E-07
3.0000E-01	-1.6182E+01	4.4824E+01	1.1278E-05	1.0000E+01	-4.5062E-07	7.2115E-06	8.5753E-07
3.0000E-01	-1.5975E+01	4.4661E+01	1.1272E-05	1.0000E+01	-2.9348E-07	7.2078E-06	9.5191E-07
3.0000E-01	-1.5727E+01	4.4500E+01	1.1263E-05	1.0000E+01	-1.4578E-07	7.2056E-06	1.0402E-06
3.0000E-01	-1.5446E+01	4.4342E+01	1.1252E-05	1.0000E+01	-7.3944E-09	7.2048E-06	1.1227E-06
3.0000E-01	-1.5136E+01	4.4186E+01	1.1238E-05	1.0000E+01	1.2194E-07	7.2054E-06	1.1995E-06
3.0000E-01	-1.4803E+01	4.4033E+01	1.1223E-05	1.0000E+01	2.4249E-07	7.2073E-06	1.2709E-06
3.0000E-01	-1.4451E+01	4.3883E+01	1.1207E-05	1.0000E+01	3.5453E-07	7.2102E-06	1.3370E-06
3.0000E-01	-1.4083E+01	4.3737E+01	1.1188E-05	1.0000E+01	4.5838E-07	7.2143E-06	1.3982E-06
3.0000E-01	-1.3704E+01	4.3594E+01	1.1169E-05	1.0000E+01	5.5429E-07	7.2194E-06	1.4546E-06
3.0000E-01	-1.3316E+01	4.3452E+01	1.1148E-05	1.0000E+01	6.4263E-07	7.2254E-06	1.5065E-06
4.0000E-01	-1.2921E+01	4.3320E+01	1.1127E-05	1.0000E+01	7.2370E-07	7.2322E-06	1.5540E-06
4.0000E-01	-1.2523E+01	4.3189E+01	1.1105E-05	1.0000E+01	7.9782E-07	7.2398E-06	1.5974E-06
4.0000E-01	-1.2123E+01	4.3062E+01	1.1081E-05	1.0000E+01	8.6530E-07	7.2482E-06	1.6368E-06
4.0000E-01	-1.1722E+01	4.2939E+01	1.1058E-05	1.0000E+01	9.2645E-07	7.2571E-06	1.6728E-06
4.0000E-01	-1.1323E+01	4.2819E+01	1.1034E-05	1.0000E+01	9.8161E-07	7.2667E-06	1.7048E-06
4.0000E-01	-1.0927E+01	4.2704E+01	1.1009E-05	1.0000E+01	1.0310E-06	7.2767E-06	1.7336E-06
4.0000E-01	-1.0535E+01	4.2593E+01	1.1000E-05	1.0000E+01	1.0751E-06	7.2873E-06	1.7593E-06
4.0000E-01	-1.0155E+01	4.2486E+01	1.0995E-05	1.0000E+01	1.1139E-06	7.2982E-06	1.7819E-06
4.7000E-01	-1.0147E+01	4.2382E+01	1.0994E-05	1.0000E+01	1.1480E-06	7.3095E-06	1.8018E-06
4.7000E-01	-1.0147E+01	4.2382E+01	1.0994E-05	1.0000E+01	1.1774E-06	7.3212E-06	1.8190E-06

4.8000E-01	-9.7856E+00	4.2283E+01	1.0909E-05	1.0000E+01	1.2028E-08	7.3331E-08	1.8336E-06
4.9000E-01	-9.3905E+00	4.2187E+01	1.0894E-05	1.0000E+01	1.2237E-08	7.3452E-08	1.8459E-06
5.0000E-01	-9.0226E+00	4.2095E+01	1.0859E-05	1.0000E+01	1.2409E-08	7.3575E-08	1.8560E-06
5.1000E-01	-8.6823E+00	4.2006E+01	1.0835E-05	1.0000E+01	1.2548E-08	7.3700E-08	1.8640E-06
5.2000E-01	-8.3702E+00	4.1927E+01	1.0810E-05	1.0000E+01	1.2650E-08	7.3828E-08	1.8701E-06
5.3000E-01	-8.0865E+00	4.1847E+01	1.0786E-05	1.0000E+01	1.2722E-08	7.3953E-08	1.8744E-06
5.4000E-01	-7.8315E+00	4.1782E+01	1.0762E-05	1.0000E+01	1.2764E-08	7.4080E-08	1.8769E-06
5.5000E-01	-7.6098E+00	4.1838E+01	1.0738E-05	1.0000E+01	1.2780E-08	7.4208E-08	1.8774E-06
5.6000E-01	-7.4185E+00	4.1868E+01	1.0715E-05	1.0000E+01	1.2736E-08	7.4363E-08	1.8756E-06
5.7000E-01	-7.2525E+00	4.1820E+01	1.0692E-05	1.0000E+01	1.2736E-08	7.4463E-08	1.8725E-06
5.8000E-01	-7.1166E+00	4.1740E+01	1.0648E-05	1.0000E+01	1.2606E-08	7.4591E-08	1.8682E-06
5.9000E-01	-7.0136E+00	4.1620E+01	1.0627E-05	1.0000E+01	1.2512E-08	7.4717E-08	1.8629E-06
6.0000E-01	-6.9300E+00	4.1504E+01	1.0606E-05	1.0000E+01	1.2401E-08	7.4843E-08	1.8566E-06
6.1000E-01	-6.8616E+00	4.1250E+01	1.0585E-05	1.0000E+01	1.2274E-08	7.5011E-08	1.8494E-06
6.2000E-01	-6.8093E+00	4.1198E+01	1.0565E-05	1.0000E+01	1.2133E-08	7.5213E-08	1.8413E-06
6.3000E-01	-6.7786E+00	4.1149E+01	1.0546E-05	1.0000E+01	1.1975E-08	7.5432E-08	1.8326E-06
6.4000E-01	-6.7551E+00	4.1102E+01	1.0527E-05	1.0000E+01	1.1814E-08	7.5672E-08	1.8231E-06
6.5000E-01	-6.7375E+00	4.1058E+01	1.0509E-05	1.0000E+01	1.1639E-08	7.5929E-08	1.8130E-06
6.6000E-01	-6.7248E+00	4.1016E+01	1.0491E-05	1.0000E+01	1.1453E-08	7.6208E-08	1.8024E-06
6.7000E-01	-6.7169E+00	4.0978E+01	1.0474E-05	1.0000E+01	1.1259E-08	7.6518E-08	1.7914E-06
6.8000E-01	-6.7130E+00	4.0938E+01	1.0457E-05	1.0000E+01	1.1059E-08	7.6859E-08	1.7799E-06
6.9000E-01	-6.7130E+00	4.0902E+01	1.0441E-05	1.0000E+01	1.0851E-08	7.7238E-08	1.7680E-06
7.0000E-01	-6.7169E+00	4.0868E+01	1.0426E-05	1.0000E+01	1.0638E-08	7.7658E-08	1.7558E-06
7.1000E-01	-6.7248E+00	4.0835E+01	1.0410E-05	1.0000E+01	1.0420E-08	7.8127E-08	1.7433E-06
7.2000E-01	-6.7375E+00	4.0805E+01	1.0395E-05	1.0000E+01	1.0198E-08	7.8632E-08	1.7306E-06
7.3000E-01	-6.7551E+00	4.0776E+01	1.0381E-05	1.0000E+01	9.9731E-07	7.9177E-06	1.7177E-06
7.4000E-01	-6.7786E+00	4.0748E+01	1.0368E-05	1.0000E+01	9.7455E-07	7.9755E-06	1.7047E-06
7.5000E-01	-6.8093E+00	4.0723E+01	1.0354E-05	1.0000E+01	9.5180E-07	8.0371E-06	1.6918E-06
7.6000E-01	-6.8465E+00	4.0698E+01	1.0342E-05	1.0000E+01	9.2852E-07	8.1025E-06	1.6783E-06
7.7000E-01	-6.8898E+00	4.0675E+01	1.0330E-05	1.0000E+01	9.0536E-07	8.1717E-06	1.6651E-06
7.8000E-01	-6.9398E+00	4.0654E+01	1.0318E-05	1.0000E+01	8.8217E-07	8.2448E-06	1.6518E-06
7.9000E-01	-6.9965E+00	4.0633E+01	1.0307E-05	1.0000E+01	8.5901E-07	8.3219E-06	1.6385E-06
8.0000E-01	-7.0602E+00	4.0614E+01	1.0286E-05	1.0000E+01	8.3592E-07	8.4038E-06	1.6253E-06
8.1000E-01	-7.1312E+00	4.0596E+01	1.0278E-05	1.0000E+01	8.1293E-07	8.4908E-06	1.6131E-06
8.2000E-01	-7.2098E+00	4.0579E+01	1.0278E-05	1.0000E+01	7.9009E-07	8.5838E-06	1.5991E-06
8.3000E-01	-7.2972E+00	4.0563E+01	1.0266E-05	1.0000E+01	7.6743E-07	8.6828E-06	1.5861E-06
8.4000E-01	-7.3932E+00	4.0548E+01	1.0257E-05	1.0000E+01	7.4498E-07	8.7888E-06	1.5732E-06
8.5000E-01	-7.4982E+00	4.0534E+01	1.0249E-05	1.0000E+01	7.2277E-07	8.9028E-06	1.5605E-06
8.6000E-01	-7.6202E+00	4.0521E+01	1.0240E-05	1.0000E+01	7.0083E-07	9.0248E-06	1.5480E-06
8.7000E-01	-7.7592E+00	4.0509E+01	1.0232E-05	1.0000E+01	6.7918E-07	9.1548E-06	1.5356E-06
8.8000E-01	-7.9172E+00	4.0498E+01	1.0225E-05	1.0000E+01	6.5785E-07	9.2928E-06	1.5234E-06
8.9000E-01	-8.0962E+00	4.0487E+01	1.0217E-05	1.0000E+01	6.3685E-07	9.4388E-06	1.5113E-06
9.0000E-01	-8.2972E+00	4.0477E+01	1.0210E-05	1.0000E+01	6.1620E-07	9.5928E-06	1.4995E-06
9.1000E-01	-8.5202E+00	4.0468E+01	1.0204E-05	1.0000E+01	5.9591E-07	9.7548E-06	1.4879E-06
9.2000E-01	-8.7661E-01	4.0459E+01	1.0198E-05	1.0000E+01	5.7600E-07	9.9248E-06	1.4765E-06
9.3000E-01	-9.0351E-01	4.0451E+01	1.0192E-05	1.0000E+01	5.5648E-07	1.0102E-06	1.4654E-06
9.4000E-01	-9.3281E-01	4.0444E+01	1.0186E-05	1.0000E+01	5.3737E-07	7.9788E-08	1.4544E-06
9.5000E-01	-9.6461E-01	4.0437E+01	1.0181E-05	1.0000E+01	5.1866E-07	7.8032E-08	1.4437E-06
9.6000E-01	-1.0000E-01	4.0431E+01	1.0175E-05	1.0000E+01	5.0036E-07	7.6085E-08	1.4333E-06
9.7000E-01	-1.0617E-01	4.0425E+01	1.0171E-05	1.0000E+01	4.8249E-07	7.3918E-08	1.4231E-06
9.8000E-01	-1.1429E-01	4.0420E+01	1.0166E-05	1.0000E+01	4.6504E-07	7.1572E-08	1.4131E-06
1.0000E+00	-1.2433E-01	4.0415E+01	1.0162E-05	1.0000E+01	4.4802E-07	6.8928E-08	1.4034E-06

ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+08	0.0000E+00
1.6330E-05	5.8000E-04	0.0000E+00	1.6940E+03	5.3190E+08	2.5600E+01
3.5816E+00	2.2000E+03	3.3566E+03	2.7800E+01	1.7760E-02	3.1640E+02
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	8.3283E-09
1.0000E+03	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2600E+01
0.0000E+00	2.0589E+00	1.1524E+02	2.7168E+02	7.0581E+02	0.0000E+00
1.0000E-02	1.6333E+00	9.5569E+01	2.7156E+02	7.5882E+02	0.0000E+00
2.0000E-02	6.7608E-01	4.3842E+01	2.7137E+02	7.4848E+02	0.0000E+00
3.0000E-02	-4.3804E-01	-1.8300E+01	2.7070E+02	7.5048E+02	0.0000E+00
4.0000E-02	-2.4843E+00	-7.7600E+01	2.6993E+02	7.7173E+02	0.0000E+00
5.0000E-02	-2.3514E+00	-1.2705E+02	2.6871E+02	7.7955E+02	0.0000E+00
6.0000E-02	-2.9996E+00	-1.6485E+02	2.6738E+02	7.8442E+02	0.0000E+00
7.0000E-02	-3.4305E+00	-1.8015E+02	2.6591E+02	7.8685E+02	0.0000E+00
8.0000E-02	-3.6668E+00	-2.0441E+02	2.6434E+02	7.8733E+02	0.0000E+00
9.0000E-02	-3.7405E+00	-2.0938E+02	2.6273E+02	7.8628E+02	0.0000E+00
1.0000E-01	-3.6847E+00	-2.0690E+02	2.6113E+02	7.8406E+02	0.0000E+00
1.2000E-01	-3.5297E+00	-1.9872E+02	2.5955E+02	7.8096E+02	0.0000E+00
1.3000E-01	-3.3019E+00	-1.8632E+02	2.5802E+02	7.7722E+02	0.0000E+00
1.4000E-01	-3.0228E+00	-1.7093E+02	2.5657E+02	7.7303E+02	0.0000E+00
1.5000E-01	-2.7097E+00	-1.5355E+02	2.5519E+02	7.6853E+02	0.0000E+00
1.6000E-01	-2.3757E+00	-1.3494E+02	2.5391E+02	7.6384E+02	0.0000E+00
1.7000E-01	-2.0311E+00	-1.1568E+02	2.5272E+02	7.5907E+02	0.0000E+00
1.8000E-01	-1.6834E+00	-9.6215E+01	2.5162E+02	7.5427E+02	0.0000E+00
1.9000E-01	-1.3381E+00	-7.6858E+01	2.5062E+02	7.4950E+02	0.0000E+00
2.0000E-01	-9.9927E-01	-5.7838E+01	2.4972E+02	7.4481E+02	0.0000E+00
2.1000E-01	-6.6967E-01	-3.9324E+01	2.4890E+02	7.4023E+02	0.0000E+00
2.2000E-01	-4.5359E-02	-2.2239E+00	2.4753E+02	7.3578E+02	0.0000E+00
2.3000E-01	2.4775E-01	1.2238E+01	2.4699E+02	7.3150E+02	0.0000E+00
2.4000E-01	5.2610E-01	2.7931E+01	2.4649E+02	7.2738E+02	0.0000E+00
2.5000E-01	7.9100E-01	4.2844E+01	2.4609E+02	7.2343E+02	0.0000E+00
2.6000E-01	1.0419E+00	5.6873E+01	2.4575E+02	7.1967E+02	0.0000E+00
2.7000E-01	1.2790E+00	7.0327E+01	2.4548E+02	7.1609E+02	0.0000E+00
2.8000E-01	1.5025E+00	8.2917E+01	2.4527E+02	7.1270E+02	0.0000E+00
2.9000E-01	1.7126E+00	9.4760E+01	2.4512E+02	7.0950E+02	0.0000E+00
3.0000E-01	1.9098E+00	1.0588E+02	2.4503E+02	7.0648E+02	0.0000E+00
3.1000E-01	2.0945E+00	1.1628E+02	2.4498E+02	7.0364E+02	0.0000E+00
3.2000E-01	2.2670E+00	1.2601E+02	2.4498E+02	7.0099E+02	0.0000E+00
3.3000E-01	2.4278E+00	1.3508E+02	2.4504E+02	6.9850E+02	0.0000E+00
3.4000E-01	2.5773E+00	1.4352E+02	2.4513E+02	6.9619E+02	0.0000E+00
3.5000E-01	2.7161E+00	1.5135E+02	2.4526E+02	6.9404E+02	0.0000E+00
3.6000E-01	2.8444E+00	1.5859E+02	2.4542E+02	6.9204E+02	0.0000E+00
3.7000E-01	2.9629E+00	1.6526E+02	2.4562E+02	6.9020E+02	0.0000E+00
3.8000E-01	3.0719E+00	1.7144E+02	2.4585E+02	6.8851E+02	0.0000E+00
3.9000E-01	3.1719E+00	1.7708E+02	2.4611E+02	6.8553E+02	0.0000E+00
4.0000E-01	3.2632E+00	1.8225E+02	2.4639E+02	6.8423E+02	0.0000E+00
4.1000E-01	3.3464E+00	1.8695E+02	2.4668E+02	6.8306E+02	0.0000E+00
4.2000E-01	3.4218E+00	1.9125E+02	2.4702E+02	6.8200E+02	0.0000E+00
4.3000E-01	3.4899E+00	1.9507E+02	2.4736E+02	6.8105E+02	0.0000E+00
4.4000E-01	3.5509E+00	1.9852E+02	2.4772E+02	6.8020E+02	0.0000E+00
4.5000E-01	3.6054E+00	2.0161E+02	2.4809E+02	6.7946E+02	0.0000E+00
4.6000E-01	3.6536E+00	2.0434E+02	2.4848E+02	6.7880E+02	0.0000E+00
4.7000E-01	3.6958E+00	2.0674E+02	2.4888E+02	6.7824E+02	0.0000E+00

4.8000E-01	3.7326E+00	2.0883E+02	2.4929E+02	6.7775E+02	0.0000E+00
4.9000E-01	3.7641E+00	2.1067E+02	2.4970E+02	6.7735E+02	0.0000E+00
5.0000E-01	3.7906E+00	2.1214E+02	2.5013E+02	6.7702E+02	0.0000E+00
5.1000E-01	3.8125E+00	2.1339E+02	2.5056E+02	6.7675E+02	0.0000E+00
5.2000E-01	3.8301E+00	2.1440E+02	2.5099E+02	6.7656E+02	0.0000E+00
5.3000E-01	3.8436E+00	2.1518E+02	2.5143E+02	6.7642E+02	0.0000E+00
5.4000E-01	3.8534E+00	2.1574E+02	2.5187E+02	6.7634E+02	0.0000E+00
5.5000E-01	3.8595E+00	2.1611E+02	2.5231E+02	6.7631E+02	0.0000E+00
5.6000E-01	3.8624E+00	2.1626E+02	2.5275E+02	6.7633E+02	0.0000E+00
5.7000E-01	3.8627E+00	2.1629E+02	2.5319E+02	6.7638E+02	0.0000E+00
5.8000E-01	3.8591E+00	2.1615E+02	2.5362E+02	6.7650E+02	0.0000E+00
5.9000E-01	3.8534E+00	2.1585E+02	2.5406E+02	6.7664E+02	0.0000E+00
6.0000E-01	3.8436E+00	2.1539E+02	2.5449E+02	6.7682E+02	0.0000E+00
6.1000E-01	3.8292E+00	2.1482E+02	2.5492E+02	6.7703E+02	0.0000E+00
6.2000E-01	3.8092E+00	2.1413E+02	2.5535E+02	6.7728E+02	0.0000E+00
6.3000E-01	3.8081E+00	2.1334E+02	2.5577E+02	6.7755E+02	0.0000E+00
6.4000E-01	3.7920E+00	2.1245E+02	2.5619E+02	6.7784E+02	0.0000E+00
6.5000E-01	3.7744E+00	2.1147E+02	2.5660E+02	6.7816E+02	0.0000E+00
6.6000E-01	3.7553E+00	2.1041E+02	2.5700E+02	6.7850E+02	0.0000E+00
6.7000E-01	3.7350E+00	2.0928E+02	2.5740E+02	6.7885E+02	0.0000E+00
6.8000E-01	3.7135E+00	2.0808E+02	2.5780E+02	6.7923E+02	0.0000E+00
6.9000E-01	3.6910E+00	2.0682E+02	2.5818E+02	6.7961E+02	0.0000E+00
7.0000E-01	3.6676E+00	2.0552E+02	2.5856E+02	6.8001E+02	0.0000E+00
7.1000E-01	3.6433E+00	2.0416E+02	2.5893E+02	6.8042E+02	0.0000E+00
7.2000E-01	3.6184E+00	2.0277E+02	2.5930E+02	6.8084E+02	0.0000E+00
7.3000E-01	3.5930E+00	2.0135E+02	2.5965E+02	6.8126E+02	0.0000E+00
7.4000E-01	3.5670E+00	1.9990E+02	2.6000E+02	6.8170E+02	0.0000E+00
7.5000E-01	3.5406E+00	1.9842E+02	2.6034E+02	6.8213E+02	0.0000E+00
7.6000E-01	3.5139E+00	1.9693E+02	2.6068E+02	6.8257E+02	0.0000E+00
7.7000E-01	3.4870E+00	1.9542E+02	2.6100E+02	6.8302E+02	0.0000E+00
7.8000E-01	3.4598E+00	1.9390E+02	2.6132E+02	6.8346E+02	0.0000E+00
7.9000E-01	3.4326E+00	1.9235E+02	2.6163E+02	6.8391E+02	0.0000E+00
8.0000E-01	3.4053E+00	1.9078E+02	2.6193E+02	6.8435E+02	0.0000E+00
8.1000E-01	3.3780E+00	1.8932E+02	2.6222E+02	6.8479E+02	0.0000E+00
8.2000E-01	3.3508E+00	1.8786E+02	2.6252E+02	6.8524E+02	0.0000E+00
8.3000E-01	3.3238E+00	1.8640E+02	2.6279E+02	6.8567E+02	0.0000E+00
8.4000E-01	3.2968E+00	1.8495E+02	2.6306E+02	6.8611E+02	0.0000E+00
8.5000E-01	3.2701E+00	1.8350E+02	2.6332E+02	6.8654E+02	0.0000E+00
8.6000E-01	3.2436E+00	1.8178E+02	2.6357E+02	6.8697E+02	0.0000E+00
8.7000E-01	3.2174E+00	1.8032E+02	2.6382E+02	6.8739E+02	0.0000E+00
8.8000E-01	3.1915E+00	1.7887E+02	2.6406E+02	6.8780E+02	0.0000E+00
8.9000E-01	3.1660E+00	1.7744E+02	2.6429E+02	6.8821E+02	0.0000E+00
9.0000E-01	3.1408E+00	1.7602E+02	2.6451E+02	6.8862E+02	0.0000E+00
9.1000E-01	3.1160E+00	1.7463E+02	2.6473E+02	6.8901E+02	0.0000E+00
9.2000E-01	3.0916E+00	1.7327E+02	2.6494E+02	6.8940E+02	0.0000E+00
9.3000E-01	3.0676E+00	1.7192E+02	2.6514E+02	6.8978E+02	0.0000E+00
9.4000E-01	3.0441E+00	1.7060E+02	2.6534E+02	6.9016E+02	0.0000E+00
9.5000E-01	3.0210E+00	1.6931E+02	2.6553E+02	6.9053E+02	0.0000E+00
9.6000E-01	2.9984E+00	1.6804E+02	2.6571E+02	6.9089E+02	0.0000E+00
9.7000E-01	2.9763E+00	1.6680E+02	2.6571E+02	6.9124E+02	0.0000E+00
9.8000E-01	2.9547E+00	1.6558E+02	2.6589E+02	6.9158E+02	0.0000E+00
9.9000E-01	2.9336E+00	1.6440E+02	2.6627E+02	6.9192E+02	0.0000E+00
1.0000E+00	2.9129E+00	1.6324E+02	2.6636E+02	6.9224E+02	0.0000E+00



```

80  FORMAT(5X,'COEFFICIENTS VALUES.',//)
90  FORMAT(5X,'TIME          ',7(I2,' VARIABLE  '))
    PRINT *, 'ENTER NUMBER OF VARIABLES.'
    READ *, XI
    PRINT *, 'ENTER NUMBER OF COEFFICIENTS.'
    READ *, KI
    PRINT *, 'ENTER VARIABLES INITIAL VALUES.'
    DO I=1,XI
      READ *, X(I,1)
      X(I,2)=X(I,1)
      X(I,3)=0.0
    END DO
    PRINT *, 'ENTER COEFFICIENTS VALUES.'
    DO I=1,KI
      READ *, K(I)
    END DO
    PRINT *, 'ENTER INCREMENT OF TIME AND FINAL TIME.'
    READ *, DLT, FTIM
    PRINT *, 'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
    READ *, PTC, MXIT
    PRINT *, 'ENTER DISCRETE TIME.'
    READ *, DSTIM

```

```

C
    DO I=1,XI
      Z(I)=I
    END DO

```

C \*\*\*\*\*

```

C
C   WRITE TITLE AND INITIAL CONDITIONS.
C

```

C \*\*\*\*\*

```

C
    WRITE(10,50)
    WRITE(10,60)
    WRITE(10,80)
    WRITE(10,70),(K(I),I=1,KI)
    WRITE(10,60)
    IF (XI.GT.7) THEN
      WRITE(11,50)
      WRITE(11,60)
      WRITE(11,80)
      WRITE(11,70),(K(I),I=1,KI)
      WRITE(11,60)
      WRITE(11,90),(Z(I),I=8,KI)
      WRITE(11,70),T,(X(I,1),I=8,XI)
      XI1=7
    ELSE
      XI1=XI
    ENDIF
    WRITE(10,90),(Z(I),I=1,XI1)
    WRITE(10,70),T,(X(I,1),I=1,XI1)

```

C -----

```

C
C   TIME LOOP.
C

```

C -----

```

C
    DO WHILE (T.LE.FTIM)

```

```

C
C      C=0
C      FLAG=0
C      DISCF=0
C
C*****
C      ITERATION LOOP.
C*****
C
C      DO WHILE ((FLAG.LT.1).AND.(C.LE.MXIT))
C          C=C+1
C          FLAG=1
C          PRINT *, 'C:',C, 'T:',T, 'MXIT',MXIT
C      X(2,2)=X(1,2)*K(1)-X(8,2)*K(13)
C      XX=2
C      XY=3
C      KX=2
C      KY=14
C      CALL INTI(XX,XY,KX,KY)
C      X(4,2)=X(2,2)*K(2)+X(3,2)*K(3)-X(8,2)*K(12)
C      XX=4
C      XY=5
C      KX=4
C      KY=5
C      CALL INTI(XX,XY,KX,KY)
C      X(6,2)=X(4,2)*K(4)*K(7)+X(5,2)*K(6)*K(7)
C      IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
C          DISCF=1
C          X(7,2)=X(6,2)*K(8)
C      ENDIF
C      XX=7
C      XY=8
C      KX=10
C      KY=11
C      CALL INTI(XX,XY,KX,KY)
C      ENDDO
C      IF (DTM.GE.DSTIM) THEN
C          DTM=0
C      END IF
C      IF (C.GT.MXIT) THEN
C          PRINT *,C, 'ITERATIVE LOOPS AT:',T, 'SEC.'
C      END IF
C      PTC=PTC+1
C      T=T+DLT
C      DTM=DTM+1
C      IF (PTC.EQ.PTCD) THEN
C          PTC=0
C          IF(XI.GT.7) THEN
C              WRITE(11,70),T,(X(I,2),I=8,XI)
C          END IF
C          WRITE(10,70),T,(X(I,2),I=1,XI1)
C      END IF
C      DO I=1,XI
C          X(I,1)=X(I,2)
C      END DO
C      ENDDO
C      END

```

Appendix #22.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
1.630E-05	5.9000E-04	1.6940E+03	5.3190E+08	2.5600E+01	3.1640E+02	1.7140E+00	1.6280E+02
0.0000E+00	3.3566E+03	2.7800E+01	2.8500E-10	6.3283E-09	0.0000E+00		
0.0000E+00	3.6363E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
3.0000E-04	3.6363E+00	5.9381E-05	8.7587E-12	4.9872E-08	5.6667E-05	4.8540E-01	0.0000E+00
6.0000E-04	3.6363E+00	5.9381E-05	1.8268E-11	6.7876E-08	1.4968E-04	6.9816E-01	0.0000E+00
1.2000E-03	3.6363E+00	5.9381E-05	4.0780E-11	8.5481E-08	2.7028E-04	9.2588E-01	0.0000E+00
1.8000E-03	3.6363E+00	5.9381E-05	5.0800E-11	1.0329E-07	4.1826E-04	1.1685E+00	0.0000E+00
2.4000E-03	3.6363E+00	5.9381E-05	6.1311E-11	1.2109E-07	5.9340E-04	1.4258E+00	0.0000E+00
3.0000E-03	3.6363E+00	5.9381E-05	7.1821E-11	1.3889E-07	7.9552E-04	1.6578E+00	0.0000E+00
3.6000E-03	3.6363E+00	5.9381E-05	8.2331E-11	1.5670E-07	1.0244E-03	1.9541E+00	0.0000E+00
4.2000E-03	3.6363E+00	5.9381E-05	9.2841E-11	1.7498E-07	1.2798E-03	2.2850E+00	0.0000E+00
4.8000E-03	3.6363E+00	5.9381E-05	1.0294E-10	1.7498E-07	1.5570E-03	2.4396E+00	0.0000E+00
5.4000E-03	3.6363E+00	5.9381E-05	1.1248E-10	6.8747E-08	1.7546E-03	2.4396E+00	3.9717E+02
6.0000E-03	3.6363E+00	5.9381E-05	1.2144E-10	2.3838E-09	1.8135E-03	1.7606E+00	3.9717E+02
6.6000E-03	3.6363E+00	4.8972E-05	1.2982E-10	6.4109E-08	1.7346E-03	1.0052E+00	3.9717E+02
7.2000E-03	3.6363E+00	4.5741E-05	1.3763E-10	-1.7073E-07	1.5188E-03	-7.7391E-01	3.9717E+02
7.8000E-03	3.6363E+00	4.2537E-05	1.4488E-10	-2.5748E-07	1.1687E-03	-1.7148E+00	3.9717E+02
8.4000E-03	3.6363E+00	3.9360E-05	1.5156E-10	-3.4435E-07	6.7931E-04	-2.7709E+00	3.9717E+02
9.0000E-03	3.6363E+00	3.6210E-05	1.5770E-10	-4.3135E-07	5.7637E-04	-3.9013E+00	3.9717E+02
9.6000E-03	3.6363E+00	3.3085E-05	1.6333E-10	-5.1848E-07	4.9779E-04	-5.1053E+00	3.9717E+02
1.0000E-02	3.6363E+00	3.1887E-05	1.6970E-10	-6.0693E-07	4.3704E-04	-6.3778E+00	3.9717E+02
1.0600E-02	3.6363E+00	4.0039E-05	1.7700E-10	-7.1300E-07	3.8216E-04	-7.6666E+00	3.9717E+02
1.1200E-02	3.6363E+00	4.8131E-05	1.8530E-10	-8.3255E-08	3.3391E-04	-9.0700E+00	3.9717E+02
1.1800E-02	3.6363E+00	5.6162E-05	1.9430E-10	-9.6591E-08	2.9251E-04	-1.0606E+00	3.9717E+02
1.2400E-02	3.6363E+00	6.4126E-05	2.0390E-10	-1.1130E-07	2.5911E-04	-1.2290E-03	3.9717E+02
1.3000E-02	3.6363E+00	7.2024E-05	2.1410E-10	-1.2800E-07	2.3200E-04	-1.4011E-03	3.9717E+02
1.3600E-02	3.6363E+00	8.0857E-05	2.2480E-10	-1.4540E-07	2.0943E-04	-1.5780E-03	3.9717E+02
1.4200E-02	3.6363E+00	9.0624E-05	2.3600E-10	-1.6350E-07	1.9162E-04	-1.7600E-03	3.9717E+02
1.4800E-02	3.6363E+00	1.0120E-04	2.4780E-10	-1.8240E-07	1.7530E-04	-1.9480E-03	3.9717E+02
1.5400E-02	3.6363E+00	1.1240E-04	2.5990E-10	-2.0200E-07	1.5960E-04	-2.1420E-03	3.9717E+02
1.6000E-02	3.6363E+00	1.2400E-04	2.7330E-10	-2.2320E-07	1.4460E-04	-2.3440E-03	3.9717E+02
1.6600E-02	3.6363E+00	1.3600E-04	2.8720E-10	-2.4520E-07	1.3020E-04	-2.5540E-03	3.9717E+02
1.7200E-02	3.6363E+00	1.4840E-04	3.0160E-10	-2.6800E-07	1.1640E-04	-2.7720E-03	3.9717E+02
1.7800E-02	3.6363E+00	1.6120E-04	3.1650E-10	-2.9160E-07	1.0320E-04	-2.9980E-03	3.9717E+02
1.8400E-02	3.6363E+00	1.7440E-04	3.3190E-10	-3.1600E-07	9.0600E-05	-3.2320E-03	3.9717E+02
1.9000E-02	3.6363E+00	1.8800E-04	3.4780E-10	-3.4200E-07	7.9400E-05	-3.4740E-03	3.9717E+02
1.9600E-02	3.6363E+00	2.0200E-04	3.6420E-10	-3.6900E-07	6.8600E-05	-3.7240E-03	3.9717E+02
2.0200E-02	3.6363E+00	2.1640E-04	3.8120E-10	-3.9700E-07	5.9200E-05	-3.9820E-03	3.9717E+02
2.0800E-02	3.6363E+00	2.3120E-04	3.9880E-10	-4.2600E-07	5.0600E-05	-4.2480E-03	3.9717E+02
2.1400E-02	3.6363E+00	2.4640E-04	4.1700E-10	-4.5600E-07	4.2600E-05	-4.5220E-03	3.9717E+02
2.2000E-02	3.6363E+00	2.6200E-04	4.3580E-10	-4.8700E-07	3.5100E-05	-4.8040E-03	3.9717E+02
2.2600E-02	3.6363E+00	2.7800E-04	4.5520E-10	-5.1900E-07	2.8100E-05	-5.0940E-03	3.9717E+02
2.3200E-02	3.6363E+00	2.9440E-04	4.7520E-10	-5.5200E-07	2.1600E-05	-5.3920E-03	3.9717E+02
2.3800E-02	3.6363E+00	3.1120E-04	4.9580E-10	-5.8600E-07	1.5600E-05	-5.6980E-03	3.9717E+02
2.4400E-02	3.6363E+00	3.2840E-04	5.1700E-10	-6.2100E-07	1.0100E-05	-6.0120E-03	3.9717E+02
2.5000E-02	3.6363E+00	3.4600E-04	5.3880E-10	-6.5700E-07	5.4900E-06	-6.3340E-03	3.9717E+02
2.5600E-02	3.6363E+00	3.6400E-04	5.6120E-10	-6.9400E-07	4.8400E-06	-6.6640E-03	3.9717E+02
2.6200E-02	3.6363E+00	3.8240E-04	5.8420E-10	-7.3200E-07	4.2600E-06	-6.9920E-03	3.9717E+02
2.6800E-02	3.6363E+00	4.0120E-04	6.0780E-10	-7.7100E-07	3.7400E-06	-7.3280E-03	3.9717E+02
2.7400E-02	3.6363E+00	4.2040E-04	6.3200E-10	-8.1100E-07	3.2800E-06	-7.6720E-03	3.9717E+02
2.8000E-02	3.6363E+00	4.4000E-04	6.5680E-10	-8.5200E-07	2.8800E-06	-8.0240E-03	3.9717E+02
2.8600E-02	3.6363E+00	4.6000E-04	6.8220E-10	-8.9400E-07	2.5400E-06	-8.3840E-03	3.9717E+02
2.9200E-02	3.6363E+00	4.8000E-04	7.0820E-10	-9.3700E-07	2.2600E-06	-8.7520E-03	3.9717E+02
2.9800E-02	3.6363E+00	5.0000E-04	7.3480E-10	-9.8100E-07	2.0400E-06	-9.1280E-03	3.9717E+02
3.0400E-02	3.6363E+00	5.2000E-04	7.6200E-10	-1.0260E-06	1.8600E-06	-9.5120E-03	3.9717E+02
3.1000E-02	3.6363E+00	5.4000E-04	7.9000E-10	-1.0720E-06	1.7100E-06	-9.9040E-03	3.9717E+02
3.1600E-02	3.6363E+00	5.6000E-04	8.1800E-10	-1.1190E-06	1.5700E-06	-1.0300E+00	3.9717E+02
3.2200E-02	3.6363E+00	5.8000E-04	8.4700E-10	-1.1670E-06	1.4400E-06	-1.1600E+00	3.9717E+02
3.2800E-02	3.6363E+00	6.0000E-04	8.7600E-10	-1.2160E-06	1.3200E-06	-1.2920E+00	3.9717E+02
3.3400E-02	3.6363E+00	6.2000E-04	9.0600E-10	-1.2660E-06	1.2100E-06	-1.4280E+00	3.9717E+02
3.4000E-02	3.6363E+00	6.4000E-04	9.3600E-10	-1.3170E-06	1.1100E-06	-1.5680E+00	3.9717E+02
3.4600E-02	3.6363E+00	6.6000E-04	9.6700E-10	-1.3690E-06	1.0200E-06	-1.7120E+00	3.9717E+02
3.5200E-02	3.6363E+00	6.8000E-04	9.9800E-10	-1.4220E-06	9.3000E-07	-1.8600E+00	3.9717E+02
3.5800E-02	3.6363E+00	7.0000E-04	1.0300E-09	-1.4760E-06	8.4600E-07	-2.0120E+00	3.9717E+02
3.6400E-02	3.6363E+00	7.2000E-04	1.0700E-09	-1.5310E-06	7.6900E-07	-2.1680E+00	3.9717E+02
3.7000E-02	3.6363E+00	7.4000E-04	1.1100E-09	-1.5870E-06	6.9800E-07	-2.3280E+00	3.9717E+02
3.7600E-02	3.6363E+00	7.6000E-04	1.1500E-09	-1.6440E-06	6.3400E-07	-2.4920E+00	3.9717E+02
3.8200E-02	3.6363E+00	7.8000E-04	1.1900E-09	-1.7020E-06	5.7600E-07	-2.6600E+00	3.9717E+02
3.8800E-02	3.6363E+00	8.0000E-04	1.2300E-09	-1.7610E-06	5.2400E-07	-2.8320E+00	3.9717E+02
3.9400E-02	3.6363E+00	8.2000E-04	1.2700E-09	-1.8210E-06	4.7800E-07	-3.0080E+00	3.9717E+02
4.0000E-02	3.6363E+00	8.4000E-04	1.3100E-09	-1.8820E-06	4.3800E-07	-3.1880E+00	3.9717E+02
4.0600E-02	3.6363E+00	8.6000E-04	1.3500E-09	-1.9440E-06	4.0300E-07	-3.3720E+00	3.9717E+02
4.1200E-02	3.6363E+00	8.8000E-04	1.3900E-09	-2.0080E-06	3.7300E-07	-3.5600E+00	3.9717E+02
4.1800E-02	3.6363E+00	9.0000E-04	1.4300E-09	-2.0740E-06	3.4800E-07	-3.7520E+00	3.9717E+02
4.2400E-02	3.6363E+00	9.2000E-04	1.4700E-09	-2.1420E-06	3.2800E-07	-3.9480E+00	3.9717E+02
4.3000E-02	3.6363E+00	9.4000E-04	1.5100E-09	-2.2120E-06	3.1300E-07	-4.1480E+00	3.9717E+02
4.3600E-02	3.6363E+00	9.6000E-04	1.5500E-09	-2.2840E-06	3.0200E-07	-4.3520E+00	3.9717E+02
4.4200E-02	3.6363E+00	9.8000E-04	1.5900E-09	-2.3580E-06	2.9400E-07	-4.5600E+00	3.9717E+02
4.4800E-02	3.6363E+00	1.0000E-03	1.6300E-09	-2.4340E-06	2.8800E-07	-4.7720E+00	3.9717E+02
4.5400E-02	3.6363E+00	1.0200E-03	1.6700E-09	-2.5120E-06	2.8300E-07	-4.9880E+00	3.9717E+02
4.6000E-02	3.6363E+00	1.0400E-03	1.7100E-09	-2.5920E-06	2.7900E-07	-5.2080E+00	3.9717E+02
4.6600E-02	3.6363E+00	1.0600E-03	1.7500E-09	-2.6740E-06	2.7600E-07	-5.4320E+00	3.9717E+02
4.7200E-02	3.6363E+00	1.0800E-03	1.7900E-09	-2.7580E-06	2.7400E-07	-5.6600E+00	3.9717E+02
4.7800E-02	3.6363E+00	1.1000E-03	1.8300E-09	-2.8440E-06	2.7200E-07	-5.8920E+00	3.9717E+02
4.8400E-02	3.6363E+00	1.1200E-03	1.8700E-09	-2.9320E-06	2.7100E-07	-6.1280E+00	3.9717E+02
4.9000E-02	3.6363E+00	1.1400E-03	1.9100E-09	-3.0220E-06	2.7000E-07	-6.3680E+00	3.9717E+02
4.9600E-02	3.6363E+00	1.1600E-03	1.9500E-09	-3.1140E-06	2.6900E-07	-6.6120E+00	3.9717E+02
5.0200E-02	3.6363E+00	1.1800E-03	1.9900E-09	-3.2080E-06	2.6800E-07	-6.8640E+00	3.9717E+02
5.0800E-02	3.6363E+00	1.2000E-03	2.0300E-09	-3.3040E-06	2.6700E-07	-7.1240E+00	3.9717E+02
5.1400E-02	3.6363E+00	1.2200E-03	2.0700E-09	-3.4020E-06	2.6600E-07		



1.4700E-02 3.6363E+00 -4.4727E-04 6.3664E-10 -1.4698E-05 6.6869E-02 -9.7845E+01 2.9017E+04  
1.500E-02 3.6363E+00 -6.8540E-04 5.3637E-10 -2.2300E-05 3.6745E-02 -1.9337E+02 2.9017E+04  
1.530E-02 3.6363E+00 -9.2155E-04 3.9413E-10 -2.9911E-05 5.0372E-03 -5.0372E-03 2.9017E+04  
1.560E-02 3.6363E+00 -1.1957E-03 2.8071E-10 -3.7531E-05 5.9606E-02 -3.7394E+02 2.9017E+04  
1.590E-02 3.6363E+00 -1.4877E-03 1.9880E-03 -4.5160E-05 -1.2369E-01 -4.7890E+02 2.9017E+04  
1.620E-02 3.6363E+00 -1.7812E-03 1.4545E-03 -4.7677E-05 -1.2844E-01 -5.4282E+02 -8.8371E+04  
1.650E-02 3.6363E+00 -2.0384E-03 1.0535E-03 -4.6575E-05 -2.2532E-01 -6.251E+02 -8.8371E+04  
1.680E-02 3.6363E+00 4.0535E-04 -5.2567E-10 -1.4435E-06 2.7403E-01 -3.6251E+02 -8.8371E+04  
1.710E-02 3.6363E+00 7.7873E-04 -5.5038E-10 2.1777E-05 2.2558E-01 5.9285E+01 -8.8371E+04  
1.740E-02 3.6363E+00 2.2368E-03 6.1354E-11 4.4907E-05 -2.0088E-01 3.0047E+02 -8.8371E+04  
1.770E-02 3.6363E+00 2.9567E-03 6.1406E-10 9.1373E-05 -1.0949E-01 5.6171E+02 -8.8371E+04  
1.800E-02 3.6363E+00 3.6707E-03 1.1777E-09 1.1485E-04 8.1139E-02 4.6287E+02 -8.8371E+04  
1.830E-02 3.6363E+00 4.3787E-03 1.8401E-09 1.3795E-04 3.8116E-01 1.1438E+03 -8.8371E+04  
1.860E-02 3.6363E+00 5.0648E-03 2.6626E-09 1.4584E-04 6.1194E-01 1.4644E+03 -8.8371E+04  
1.890E-02 3.6363E+00 5.7400E-03 3.2701E-09 1.5076E-04 7.8263E-01 1.6598E+03 2.7019E+05  
1.920E-02 3.6363E+00 6.4048E-03 3.7432E-09 4.4213E-06 8.9977E-01 1.1089E+03 2.7019E+05  
1.950E-02 3.6363E+00 7.0599E-03 4.2763E-09 -6.6323E-05 8.7409E-01 4.9572E+02 2.7019E+05  
1.980E-02 3.6363E+00 7.7177E-03 4.7879E-09 -1.3716E-04 6.1632E-01 -1.7943E+02 2.7019E+05  
2.010E-02 3.6363E+00 8.3888E-03 5.2898E-09 -2.0808E-04 3.3716E-01 -9.1619E+02 2.7019E+05  
2.040E-02 3.6363E+00 9.0788E-03 5.7909E-09 -2.7909E-04 5.2674E-02 -1.7142E+02 2.7019E+05  
2.070E-02 3.6363E+00 9.7922E-03 6.3087E-09 -3.5018E-04 -5.6246E-01 -2.5729E+03 2.7019E+05  
2.100E-02 3.6363E+00 1.0483E-02 -6.8136E-09 -4.2136E-04 -1.1615E+01 -3.4621E+03 2.7019E+05  
2.130E-02 3.6363E+00 1.1244E-02 -7.3368E-09 -4.4485E-04 -1.6615E+01 -4.4714E+03 2.7019E+05  
2.160E-02 3.6363E+00 1.2004E-02 -7.8368E-09 -4.685E-04 -2.3674E+00 -5.0677E+03 -8.2503E+05  
2.190E-02 3.6363E+00 1.2764E-02 -8.3368E-09 -4.9231E-04 -2.9674E+00 -3.3655E+03 -8.2503E+05  
2.220E-02 3.6363E+00 1.3524E-02 -8.8368E-09 -5.1605E-04 -3.5674E+00 -1.5126E+03 -8.2503E+05  
2.250E-02 3.6363E+00 1.4284E-02 -9.3368E-09 -5.398E-04 -4.1674E+00 5.4866E+02 -8.2503E+05  
2.280E-02 3.6363E+00 1.5044E-02 -9.8368E-09 -5.6354E-04 -4.7674E+00 2.8001E+03 -8.2503E+05  
2.310E-02 3.6363E+00 1.5804E-02 -1.0336E-08 -5.8728E-04 -5.3674E+00 5.2374E+03 -8.2503E+05  
2.340E-02 3.6363E+00 1.6564E-02 -1.1100E-08 -6.1102E-04 -5.9674E+00 7.6666E+03 -8.2503E+05  
2.370E-02 3.6363E+00 1.7324E-02 -1.1864E-08 -6.3476E-04 -6.5674E+00 1.0668E+04 -8.2503E+05  
2.400E-02 3.6363E+00 1.8084E-02 -1.2628E-08 -6.585E-04 -7.1674E+00 1.3659E+04 -8.2503E+05  
2.430E-02 3.6363E+00 1.8844E-02 -1.3392E-08 -6.8224E-04 -7.7674E+00 1.5481E+04 -8.2503E+05  
2.460E-02 3.6363E+00 1.9604E-02 -1.4156E-08 -7.0598E-04 -8.3674E+00 1.0342E+04 -8.2503E+05  
2.490E-02 3.6363E+00 2.0364E-02 -1.4920E-08 -7.2972E-04 -8.9674E+00 4.6218E+03 2.5203E+06  
2.520E-02 3.6363E+00 2.1124E-02 -1.5684E-08 -7.5346E-04 -9.5674E+00 -6.5512E+03 2.5203E+06  
2.550E-02 3.6363E+00 2.1884E-02 -1.6448E-08 -7.7720E-04 -1.0167E+04 8.6773E+03 2.5203E+06  
2.580E-02 3.6363E+00 2.2644E-02 -1.7212E-08 -8.0094E-04 -1.0767E+04 -6.5512E+03 2.5203E+06  
2.610E-02 3.6363E+00 2.3404E-02 -1.7976E-08 -8.2468E-04 -1.1367E+04 -5.9966E+04 2.5203E+06  
2.640E-02 3.6363E+00 2.4164E-02 -1.8740E-08 -8.4842E-04 -1.1967E+04 -2.4008E+04 2.5203E+06  
2.670E-02 3.6363E+00 2.4924E-02 -1.9504E-08 -8.7216E-04 -1.2567E+04 -3.2585E+04 2.5203E+06  
2.700E-02 3.6363E+00 2.5684E-02 -1.9992E-08 -8.9590E-04 -1.3167E+04 -1.0842E+01 4.1721E+04  
2.730E-02 3.6363E+00 2.6444E-02 -2.0756E-08 -9.1964E-04 -1.3767E+04 -3.1589E+04 -7.6503E+06  
2.760E-02 3.6363E+00 2.7204E-02 -2.1520E-08 -9.4338E-04 -1.4367E+04 -2.2283E+01 -3.1589E+04  
2.790E-02 3.6363E+00 2.7964E-02 -2.2284E-08 -9.6712E-04 -1.4967E+04 -2.3912E+01 -1.4116E+04  
2.820E-02 3.6363E+00 2.8724E-02 -2.3048E-08 -9.9086E-04 -1.5567E+04 -2.2325E+01 5.1250E+03  
2.850E-02 3.6363E+00 2.9484E-02 -2.3812E-08 -1.0140E-03 -1.6167E+04 -1.7544E+01 2.6121E+04  
2.880E-02 3.6363E+00 3.0244E-02 -2.4576E-08 -1.0314E-03 -1.6767E+04 -9.5895E+00 4.8662E+04  
2.910E-02 3.6363E+00 3.1004E-02 -2.5340E-08 -1.0488E-03 -1.7367E+04 -1.5209E+00 7.3355E+04  
2.940E-02 3.6363E+00 3.1764E-02 -2.6104E-08 -1.0662E-03 -1.7967E+04 1.5744E+01 9.8531E+04  
2.970E-02 3.6363E+00 3.2524E-02 -2.6868E-08 -1.0836E-03 -1.8567E+04 3.3121E+01 1.2744E+05  
3.000E-02 3.6363E+00 3.3284E-02 -2.7632E-08 -1.1010E-03 -1.9167E+04 5.3209E+01 1.4443E+05  
3.030E-02 3.6363E+00 3.4044E-02 -2.8396E-08 -1.1184E-03 -1.9767E+04 8.6307E+01 1.6141E+05  
3.060E-02 3.6363E+00 3.4804E-02 -2.9160E-08 -1.1358E-03 -2.0367E+04 1.2744E+05 1.7839E+06  
3.090E-02 3.6363E+00 3.5564E-02 -2.9924E-08 -1.1532E-03 -2.0967E+04 2.3514E+07 2.3514E+07

ITERATIVE METHOD. TIME RESPONSE

.....  
 COEFFICIENTS VALUES.  
 .....  
 1.6330E-05 5.8000E-04 1.6940E+03 5.3190E+08 2.5600E+01 3.1640E+02 1.7140E+00 1.6280E+02  
 0.0000E+00 3.3566E-03 2.7800E+01 2.5500E-10 6.3283E-09 0.0000E+00  
 .....

TIME	B	VARIABLE
0.0000E+00	0.0000E+00	0.0000E+00
3.0000E-04	0.0000E+00	0.0000E+00
6.0000E-04	0.0000E+00	0.0000E+00
9.0000E-04	0.0000E+00	0.0000E+00
1.2000E-03	0.0000E+00	0.0000E+00
1.5000E-03	0.0000E+00	0.0000E+00
1.8000E-03	0.0000E+00	0.0000E+00
2.1000E-03	0.0000E+00	0.0000E+00
2.4000E-03	0.0000E+00	0.0000E+00
2.7000E-03	6.6564E+01	6.6564E+01
3.0000E-03	4.6429E+02	4.6429E+02
3.3000E-03	6.5871E+02	6.5871E+02
3.6000E-03	1.2499E+03	1.2499E+03
3.9000E-03	1.6378E+03	1.6378E+03
4.2000E-03	2.0224E+03	2.0224E+03
4.5000E-03	2.4039E+03	2.4039E+03
4.8000E-03	2.7822E+03	2.7822E+03
5.1000E-03	3.1574E+03	3.1574E+03
5.4000E-03	3.5303E+03	3.5303E+03
5.7000E-03	3.9012E+03	3.9012E+03
6.0000E-03	4.2701E+03	4.2701E+03
6.3000E-03	4.6371E+03	4.6371E+03
6.6000E-03	5.0021E+03	5.0021E+03
6.9000E-03	5.3651E+03	5.3651E+03
7.2000E-03	5.7271E+03	5.7271E+03
7.5000E-03	6.0881E+03	6.0881E+03
7.8000E-03	6.4481E+03	6.4481E+03
8.1000E-03	6.8071E+03	6.8071E+03
8.4000E-03	7.1651E+03	7.1651E+03
8.7000E-03	7.5221E+03	7.5221E+03
9.0000E-03	7.8781E+03	7.8781E+03
9.3000E-03	8.2331E+03	8.2331E+03
9.6000E-03	8.5871E+03	8.5871E+03
9.9000E-03	8.9401E+03	8.9401E+03
1.0200E-02	9.2921E+03	9.2921E+03
1.0500E-02	9.6441E+03	9.6441E+03
1.0800E-02	1.0000E+04	1.0000E+04
1.1100E-02	1.0352E+04	1.0352E+04
1.1400E-02	1.0704E+04	1.0704E+04
1.1700E-02	1.1056E+04	1.1056E+04
1.2000E-02	1.1408E+04	1.1408E+04
1.2300E-02	1.1760E+04	1.1760E+04
1.2600E-02	1.2112E+04	1.2112E+04
1.2900E-02	1.2464E+04	1.2464E+04
1.3200E-02	1.2816E+04	1.2816E+04
1.3500E-02	1.3168E+04	1.3168E+04
1.3800E-02	1.3520E+04	1.3520E+04
1.4100E-02	1.3872E+04	1.3872E+04
1.4400E-02	1.4224E+04	1.4224E+04
1.4700E-02	1.4576E+04	1.4576E+04
1.5000E-02	1.4928E+04	1.4928E+04

1.5300E-02	1.1778E+05
1.5600E-02	1.4590E+05
1.5900E-02	1.7379E+05
1.6200E-02	1.8177E+05
1.6500E-02	9.1643E+04
1.6800E-02	2.2629E+03
1.7100E-02	-1.9374E+04
1.7400E-02	-1.7427E+05
1.7700E-02	-2.6144E+05
1.8000E-02	-3.4789E+05
1.8300E-02	-4.3382E+05
1.8600E-02	-5.1884E+05
1.8900E-02	-5.4285E+05
1.9200E-02	-2.6740E+05
1.9500E-02	5.7607E+03
1.9800E-02	2.7666E+05
2.0100E-02	5.4530E+05
2.0400E-02	8.1171E+05
2.0700E-02	1.0759E+06
2.1000E-02	1.3379E+06
2.1300E-02	1.5978E+06
2.1600E-02	1.6719E+06
2.1900E-02	8.3065E+05
2.2200E-02	-3.5786E+03
2.2500E-02	-8.3088E+05
2.2800E-02	-1.6513E+05
2.3100E-02	-2.4649E+06
2.3400E-02	-3.2718E+06
2.3700E-02	-4.0718E+06
2.4000E-02	-4.8655E+06
2.4300E-02	-5.6517E+06
2.4600E-02	-2.5221E+06
2.4900E-02	2.6182E+04
2.5200E-02	2.5533E+08
2.5500E-02	5.0594E+08
2.5800E-02	7.5447E+08
2.6100E-02	1.0009E+07
2.6400E-02	1.2454E+07
2.6700E-02	1.4878E+07
2.7000E-02	1.5569E+07
2.7300E-02	7.7200E+06
2.7600E-02	-6.3589E+04
2.7900E-02	-7.7825E+06
2.8200E-02	-1.5437E+07
2.8500E-02	-2.3029E+07
2.8800E-02	-3.0557E+07
2.9100E-02	-3.8022E+07
2.9400E-02	-4.5426E+07
2.9700E-02	-4.7537E+07
3.0000E-02	-2.3563E+07



```

80     FORMAT(5X,'COEFFICIENTS VALUES.',//)
90     FORMAT(5X,'TIME      ',7(I2,' VARIABLE  '))
      PRINT *,'ENTER NUMBER OF VARIABLES.'
      READ *,XI
      PRINT *,'ENTER NUMBER OF COEFFICIENTS.'
      READ *,KI
      PRINT *,'ENTER VARIABLES INITIAL VALUES.'
      DO I=1,XI
        READ *,X(I,1)
        X(I,2)=X(I,1)
        X(I,3)=0.0
      END DO
      PRINT *,'ENTER COEFFICIENTS VALUES.'
      DO I=1,KI
        READ *,K(I)
      END DO
      PRINT *,'ENTER INCREMENT OF TIME AND FINAL TIME.'
      READ *,DLT,FTIM
      PRINT *,'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
      READ *,PTCD,MXIT
      PRINT *,'ENTER DISCRETE TIME.'
      READ *,DSTIM
C
      DO I=1,XI
        Z(I)=I
      END DO
C
C*****
C
C      WRITE TITLE AND INITIAL CONDITIONS.
C*****
C
      WRITE(10,50)
      WRITE(10,60)
      WRITE(10,80)
      WRITE(10,70),(K(I),I=1,KI)
      WRITE(10,60)
      IF (XI.GT.7) THEN
        WRITE(11,50)
        WRITE(11,60)
        WRITE(11,80)
        WRITE(11,70),(K(I),I=1,KI)
        WRITE(11,60)
        WRITE(11,90),(Z(I),I=8,KI)
        WRITE(11,70),T,(X(I,1),I=8,XI)
        X11=7
      ELSE
        X11=XI
      ENDIF
      WRITE(10,90),(Z(I),I=1,X11)
      WRITE(10,70),T,(X(I,1),I=1,X11)
C
C-----
C
C      TIME LOOP.
C-----
C
      DO WHILE (T.LE.FTIM)

```

```

C=0
FLAG=0
DISCF=0
C
C*****
C
C      ITERATION LOOP.
C*****
C
C      DO WHILE ((FLAG.LT.1).AND.(C.LE.MXIT))
C          C=C+1
C          FLAG=1
C          PRINT *, 'C:', C, 'T:', T, 'MXIT', MXIT
C          X(2,2)=X(1,2)*K(1)-X(5,2)*K(8)
C          XX=2
C          XY=3
C          KX=2
C          KY=3
C          CALL INTI(XX,XY,KX,KY)
C          IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
C              DISCF=1
C              X(4,2)=X(3,2)*K(4)
C          ENDIF
C          XX=4
C          XY=5
C          KX=6
C          KY=7
C          CALL INTI(XX,XY,KX,KY)
C          ENDDO
C          IF (DTM.GE.DSTIM) THEN
C              DTM=0
C          END IF
C          IF (C.GT.MXIT) THEN
C              PRINT *, C, 'ITERATIVE LOOPS AT:', T, 'SEC.'
C          END IF
C          PTC=PTC+1
C          T=T+DLT
C          DTM=DTM+1
C          IF (PTC.EQ.PTCD) THEN
C              PTC=0
C              IF (XI.GT.7) THEN
C                  WRITE(11,70), T, (X(I,2), I=8, XI)
C              END IF
C              WRITE(10,70), T, (X(I,2), I=1, XI1)
C          END IF
C          DO I=1, XI
C              X(I,1)=X(I,2)
C          END DO
C          ENDDO
C          END

```



1.5000E-02	1.0000E+01	7.0683E-05	3.7751E+02	2.0947E+04	9.0905E+01
1.5300E-02	1.0000E+01	6.9719E-05	3.7763E+02	2.0947E+04	9.3896E+01
1.5600E-02	1.0000E+01	6.8754E-05	3.7775E+02	2.0947E+04	9.6887E+01
1.5900E-02	1.0000E+01	6.7790E-05	3.7734E+02	2.0947E+04	9.9877E+01
1.6200E-02	1.0000E+01	6.6824E-05	3.7694E+02	2.1109E+04	1.0287E+02
1.6500E-02	1.0000E+01	6.5852E-05	3.7658E+02	2.1109E+04	1.0588E+02
1.6800E-02	1.0000E+01	6.4880E-05	3.7589E+02	2.1109E+04	1.0890E+02
1.7100E-02	1.0000E+01	6.3909E-05	3.7481E+02	2.1109E+04	1.1191E+02
1.7400E-02	1.0000E+01	6.2937E-05	3.7380E+02	2.1109E+04	1.1492E+02
1.7700E-02	1.0000E+01	6.1966E-05	3.7285E+02	2.1109E+04	1.1794E+02
1.8000E-02	1.0000E+01	6.0994E-05	3.7137E+02	2.1109E+04	1.2055E+02
1.8300E-02	1.0000E+01	6.0023E-05	3.6995E+02	2.1109E+04	1.2386E+02
1.8600E-02	1.0000E+01	5.9051E-05	3.6841E+02	2.1109E+04	1.2697E+02
1.8900E-02	1.0000E+01	5.8085E-05	3.6674E+02	2.0537E+04	1.2997E+02
1.9200E-02	1.0000E+01	5.7140E-05	3.6495E+02	2.0537E+04	1.3290E+02
1.9500E-02	1.0000E+01	5.6195E-05	3.6306E+02	2.0537E+04	1.3583E+02
1.9800E-02	1.0000E+01	5.5250E-05	3.6108E+02	2.0537E+04	1.3876E+02
2.0100E-02	1.0000E+01	5.4305E-05	3.5895E+02	2.0537E+04	1.4169E+02
2.0400E-02	1.0000E+01	5.3361E-05	3.5675E+02	2.0537E+04	1.4462E+02
2.0700E-02	1.0000E+01	5.2417E-05	3.5445E+02	2.0537E+04	1.4755E+02
2.1000E-02	1.0000E+01	5.1472E-05	3.5205E+02	2.0537E+04	1.5047E+02
2.1300E-02	1.0000E+01	5.0528E-05	3.4957E+02	2.0537E+04	1.5340E+02
2.1600E-02	1.0000E+01	4.9582E-05	3.4699E+02	1.9432E+04	1.5630E+02
2.1900E-02	1.0000E+01	4.8636E-05	3.4434E+02	1.9432E+04	1.5907E+02
2.2200E-02	1.0000E+01	4.7689E-05	3.4162E+02	1.9432E+04	1.6184E+02
2.2500E-02	1.0000E+01	4.6742E-05	3.3883E+02	1.9432E+04	1.6461E+02
2.2800E-02	1.0000E+01	4.5795E-05	3.3597E+02	1.9432E+04	1.6738E+02
2.3100E-02	1.0000E+01	4.4848E-05	3.3304E+02	1.9432E+04	1.7015E+02
2.3400E-02	1.0000E+01	4.3901E-05	3.3005E+02	1.9432E+04	1.7292E+02
2.3700E-02	1.0000E+01	4.2954E-05	3.2700E+02	1.9432E+04	1.7569E+02
2.4000E-02	1.0000E+01	4.2007E-05	3.2389E+02	1.9432E+04	1.7846E+02
2.4300E-02	1.0000E+01	4.1060E-05	3.2072E+02	1.9432E+04	1.8119E+02
2.4600E-02	1.0000E+01	4.0113E-05	3.1750E+02	1.7960E+04	1.8375E+02
2.4900E-02	1.0000E+01	3.9166E-05	3.1424E+02	1.7960E+04	1.8630E+02
2.5200E-02	1.0000E+01	3.8219E-05	3.1095E+02	1.7960E+04	1.8886E+02
2.5500E-02	1.0000E+01	3.7272E-05	3.0781E+02	1.7960E+04	1.9142E+02
2.5800E-02	1.0000E+01	3.6325E-05	3.0424E+02	1.7960E+04	1.9397E+02
2.6100E-02	1.0000E+01	3.5378E-05	3.0083E+02	1.7960E+04	1.9653E+02
2.6400E-02	1.0000E+01	3.4431E-05	2.9738E+02	1.7960E+04	1.9909E+02
2.6700E-02	1.0000E+01	3.3484E-05	2.9399E+02	1.7960E+04	2.0164E+02
2.7000E-02	1.0000E+01	3.2537E-05	2.9055E+02	1.6282E+04	2.0416E+02
2.7300E-02	1.0000E+01	3.1590E-05	2.8705E+02	1.6282E+04	2.0647E+02
2.7600E-02	1.0000E+01	3.0643E-05	2.8350E+02	1.6282E+04	2.0878E+02
2.7900E-02	1.0000E+01	2.9696E-05	2.7975E+02	1.6282E+04	2.1109E+02
2.8200E-02	1.0000E+01	2.8749E-05	2.7595E+02	1.6282E+04	2.1341E+02
2.8500E-02	1.0000E+01	2.7802E-05	2.7255E+02	1.6282E+04	2.1572E+02
2.8800E-02	1.0000E+01	2.6855E-05	2.6893E+02	1.6282E+04	2.1803E+02
2.9100E-02	1.0000E+01	2.5908E-05	2.6531E+02	1.6282E+04	2.2034E+02
2.9400E-02	1.0000E+01	2.4961E-05	2.6166E+02	1.6282E+04	2.2265E+02
2.9700E-02	1.0000E+01	2.4014E-05	2.5801E+02	1.4448E+04	2.2492E+02
3.0000E-02	1.0000E+01	2.3067E-05	2.5435E+02	1.4448E+04	2.2697E+02





```

C
50   FORMAT('1',5X,'ITERATIVE METHOD. TIME RESPONSE',/)
60   FORMAT(/,70('*'),/)
70   FORMAT(1P8E13.4)
80   FORMAT(5X,'COEFFICIENTS VALUES.',/)
90   FORMAT(5X,'TIME          ',7(12,' VARIABLE  '))
      PRINT *, 'ENTER NUMBER OF VARIABLES.'
      READ *, XI
      PRINT *, 'ENTER NUMBER OF COEFFICIENTS.'
      READ *, KI
      PRINT *, 'ENTER VARIABLES INITIAL VALUES.'
      DO I=1,XI
          READ *,X(I,1)
          X(I,2)=X(I,1)
          X(I,3)=0.0
      END DO
      PRINT *, 'ENTER COEFFICIENTS VALUES.'
      DO I=1,KI
          READ *,K(I)
      END DO
      PRINT *, 'ENTER INCREMENT OF TIME AND FINAL TIME.'
      READ *,DLT,FTIM
      PRINT *, 'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
      READ *,PTCD,MXIT
      PRINT *, 'ENTER DISCRETE TIME.'
      READ *,DSTIM

C
      DO I=1,XI
          Z(I)=I
      END DO

C
C*****
C
C   WRITE TITLE AND INITIAL CONDITIONS.
C*****
C
C
      IF (XI.GT.21) THEN
          WRITE(13,50)
          WRITE(13,60)
          WRITE(13,80)
          WRITE(13,70),(K(I),I=1,KI)
          WRITE(13,60)
          WRITE(13,90),(Z(I),I=22,XI)
          WRITE(13,70),T,(X(I,1),I=22,XI)
          XI1=21
      ELSE
          XI1=XI
      ENDIF
      IF (XI1.GT.14) THEN
          WRITE(12,50)
          WRITE(12,60)
          WRITE(12,80)
          WRITE(12,70),(K(I),I=1,KI)
          WRITE(12,60)
          WRITE(12,90),(Z(I),I=15,XI1)
          WRITE(12,70),T,(X(I,1),I=15,XI1)
          XI2=14
      ELSE
          XI2=XI

```



```

CALL INTI (XX,XY,KX,KY)
X(9,2)=X(7,2)*K(10)+X(8,2)*K(12)-X(14,2)*K(22)
XX=9
XY=10
KX=13
KY=14
CALL INTI (XX,XY,KX,KY)
X(11,2)=(X(9,2)*K(13)+X(10,2)*K(15))*K(16)
IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
  DISCF=1
  X(12,2)=X(11,2)*K(17)
ENDIF
X(13,2)=X(12,2)-X(16,2)*K27
XX=13
XY=14
KX=19
KY=20
CALL INTI (XX,XY,KX,KY)
X(15,2)=X(14,2)*K(21)-X(18,2)*K(21)
XX=15
XY=16
KX=5
KY=6
CALL INTI (XX,XY,KX,KY)
XX=16
XY=17
KX=24
KY=25
CALL INTI (XX,XY,KX,KY)
COUNT=COUNT+1.0
  ENDDO
  IF (C.GT.COU) THEN
    COU = C
  ENDIF
  IF (C.GT.MXIT) THEN
    PRINT *,C,'ITERATIVE LOOPS AT:',T,'SEC.'
  END IF
  IF (DTM.GE.DSTIM) THEN
    DTM=0
  ENDIF
  PTC=PTC+1
  T=T+DLT
  DTM=DTM+1
  IF (PTC.EQ.PTCD) THEN
    PTC=0
    IF(XI.GT.21) THEN
      WRITE(13,70),T,(X(I,2),I=22,XI)
    END IF
    IF(XI1.GT.14) THEN
      WRITE(12,70),T,(X(I,2),I=15,XI1)
    END IF
    IF(XI2.GT.7) THEN
      WRITE(11,70),T,(X(I,2),I=8,XI2)
    END IF
    WRITE(10,70),T,(X(I,2),I=1,XI3)
  END IF
  DO I=1,XI
    X(I,1)=X(I,2)
  END DO
ENDDO
PRINT *, '# OF SWEEPS:',COUNT
PRINT *, '# OF MAX ITERATIONS:',COU
END

```

Appendix #26.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
1.0000E+00	5.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E-02	5.0000E+00	4.8316E-05	2.4090E-01	2.1302E+01	2.8248E-01	2.2714E+01	2.5672E-04
1.0000E-04	5.0000E+00	4.2114E-05	3.1718E-01	1.2083E+01	4.4531E-01	1.4310E+01	4.6553E-05
1.0000E-02	5.0000E+00	3.4814E-05	3.1352E-01	6.8830E+00	5.3753E-01	9.5706E+00	-3.3328E-05
5.0000E-02	5.0000E+00	2.8094E-05	2.7771E-01	4.0599E+00	5.9083E-01	7.0141E+00	-5.6468E-05
5.0000E-02	5.0000E+00	2.2312E-05	2.3299E-01	2.4712E+00	6.2278E-01	5.5851E+00	-5.8617E-05
5.0000E-02	5.0000E+00	1.7432E-05	1.8923E-01	1.4957E+00	6.4277E-01	4.7020E+00	-5.3635E-05
7.0000E-02	5.0000E+00	1.3337E-05	1.4954E-01	8.3201E-01	6.5372E-01	4.1006E+00	-4.6857E-05
8.0000E-02	5.0000E+00	9.9029E-06	1.1554E-01	3.3010E-01	6.5847E-01	3.6364E+00	-4.0233E-05
9.0000E-02	5.0000E+00	7.0214E-06	8.6955E-02	-4.8518E-02	6.6084E-01	3.2547E+00	-3.4415E-05
1.0000E-01	5.0000E+00	4.6017E-06	6.2538E-02	-3.8655E-01	6.5871E-01	2.9270E+00	-2.9505E-05
1.2000E-01	5.0000E+00	2.5689E-06	4.1935E-02	-6.2855E-01	6.5369E-01	2.6389E+00	-2.5404E-05
1.3000E-01	5.0000E+00	6.6136E-07	2.4624E-02	-8.4894E-01	6.4827E-01	2.3824E+00	-2.2000E-05
1.4000E-01	5.0000E+00	5.7185E-07	1.6039E-02	-1.0039E-02	6.3684E-01	2.1524E+00	-1.9170E-05
1.5000E-01	5.0000E+00	-2.7735E-08	-2.1842E-03	-1.3832E+00	6.2574E-01	1.9455E+00	-1.6796E-05
1.6000E-01	5.0000E+00	-3.7732E-08	-1.2473E-02	-1.3077E+00	6.1328E-01	1.7587E+00	-1.4789E-05
1.7000E-01	5.0000E+00	-4.2937E-08	-2.0974E-02	-1.4086E+00	5.9966E-01	1.5897E+00	-1.3087E-05
1.8000E-01	5.0000E+00	-4.8574E-08	-3.3986E-02	-1.4891E+00	5.8516E-01	1.4367E+00	-1.1634E-05
1.9000E-01	5.0000E+00	-5.3144E-08	-3.8795E-02	-1.5518E+00	5.6994E-01	1.2979E+00	-1.0375E-05
2.0000E-01	5.0000E+00	-5.6796E-08	-4.2717E-02	-1.6329E+00	5.5417E-01	1.1718E+00	-9.2872E-06
2.1000E-01	5.0000E+00	-5.9657E-08	-4.5862E-02	-1.6552E+00	5.3800E-01	1.0571E+00	-8.3420E-06
2.2000E-01	5.0000E+00	-6.1838E-08	-4.8337E-02	-1.6673E+00	5.2155E-01	9.5261E-01	-7.5104E-06
2.3000E-01	5.0000E+00	-6.3432E-08	-5.0235E-02	-1.6709E+00	5.0493E-01	8.5732E-01	-6.7785E-06
2.4000E-01	5.0000E+00	-6.4521E-08	-5.1637E-02	-1.6669E+00	4.8924E-01	7.7033E-01	-6.1339E-06
2.5000E-01	5.0000E+00	-6.5175E-08	-5.2612E-02	-1.6585E+00	4.7154E-01	6.9084E-01	-5.5615E-06
2.6000E-01	5.0000E+00	-6.5454E-08	-5.3218E-02	-1.6466E+00	4.5492E-01	6.1814E-01	-5.0492E-06
2.7000E-01	5.0000E+00	-6.5413E-08	-5.3508E-02	-1.6200E+00	4.3943E-01	5.5160E-01	-4.5930E-06
2.8000E-01	5.0000E+00	-6.5097E-08	-5.3576E-02	-1.5954E+00	4.2212E-01	4.9056E-01	-4.1853E-06
2.9000E-01	5.0000E+00	-6.4547E-08	-5.3312E-02	-1.5675E+00	4.0604E-01	4.3484E-01	-3.8153E-06
3.0000E-01	5.0000E+00	-6.3798E-08	-5.2695E-02	-1.5367E+00	3.9023E-01	3.8368E-01	-3.4826E-06
3.1000E-01	5.0000E+00	-6.2877E-08	-5.2317E-02	-1.5037E+00	3.7470E-01	3.3680E-01	-3.1827E-06
3.2000E-01	5.0000E+00	-6.1815E-08	-5.1591E-02	-1.4688E+00	3.5950E-01	2.9380E-01	-2.9096E-06
3.3000E-01	5.0000E+00	-6.0635E-08	-5.0745E-02	-1.4323E+00	3.4464E-01	2.5441E-01	-2.6608E-06
3.4000E-01	5.0000E+00	-5.9356E-08	-4.9797E-02	-1.3947E+00	3.3013E-01	2.1831E-01	-2.4350E-06
3.5000E-01	5.0000E+00	-5.7997E-08	-4.8766E-02	-1.3562E+00	3.1599E-01	1.8526E-01	-2.2290E-06
3.6000E-01	5.0000E+00	-5.6574E-08	-4.7666E-02	-1.3170E+00	3.0224E-01	1.5501E-01	-2.0391E-06
3.7000E-01	5.0000E+00	-5.5099E-08	-4.6511E-02	-1.2774E+00	2.8887E-01	1.2734E-01	-1.8658E-06
3.8000E-01	5.0000E+00	-5.3588E-08	-4.5312E-02	-1.2376E+00	2.7590E-01	1.0207E-01	-1.7073E-06
3.9000E-01	5.0000E+00	-5.2045E-08	-4.4079E-02	-1.1978E+00	2.6332E-01	7.9002E-02	-1.5604E-06
4.0000E-01	5.0000E+00	-5.0485E-08	-4.2822E-02	-1.1580E+00	2.5115E-01	5.7977E-02	-1.4255E-06
4.1000E-01	5.0000E+00	-4.8915E-08	-4.1548E-02	-1.1185E+00	2.3937E-01	3.8845E-02	-1.3015E-06
4.2000E-01	5.0000E+00	-4.7342E-08	-4.0265E-02	-1.0793E+00	2.2789E-01	2.1466E-02	-1.1869E-06
4.3000E-01	5.0000E+00	-4.5771E-08	-3.8977E-02	-1.0405E+00	2.1700E-01	5.7093E-03	-1.0807E-06
4.4000E-01	5.0000E+00	-4.4208E-08	-3.7691E-02	-1.0023E+00	2.0640E-01	-8.5428E-03	-9.8291E-07
4.5000E-01	5.0000E+00	-4.2659E-08	-3.6411E-02	-9.6472E-01	1.9619E-01	-2.1400E-02	-8.9735E-07
4.6000E-01	5.0000E+00	-4.1128E-08	-3.5140E-02	-9.2778E-01	1.8635E-01	-3.2855E-02	-8.0660E-07
4.7000E-01	5.0000E+00	-3.9612E-08	-3.3884E-02	-8.9278E-01	1.7689E-01	-4.3353E-02	-7.3105E-07

4.7000E-01	5.0000E+00	-3.8893E-02	-8.9156E-01	1.6779E-01	-5.2591E-02	-6.5950E-07
4.8000E-01	5.0000E+00	-3.2642E-02	-8.5610E-01	1.5906E-01	-6.0822E-02	-6.9295E-07
4.9000E-01	5.0000E+00	-3.1421E-02	-8.2145E-01	1.5076E-01	-6.8103E-02	-5.3136E-07
5.0000E-01	5.0000E+00	-3.5229E-06	-7.8762E-01	1.4282E-01	-7.4504E-02	-4.7453E-07
5.1000E-01	5.0000E+00	-2.9042E-02	-7.5466E-01	1.3491E-01	-8.0092E-02	-4.2193E-07
5.2000E-01	5.0000E+00	-2.7888E-02	-7.2257E-01	1.2735E-01	-8.4930E-02	-3.7306E-07
5.3000E-01	5.0000E+00	-2.6781E-02	-6.9137E-01	1.2046E-01	-8.9074E-02	-3.2806E-07
5.4000E-01	5.0000E+00	-2.5660E-02	-6.6107E-01	1.1370E-01	-9.2579E-02	-2.8655E-07
5.5000E-01	5.0000E+00	-2.4538E-02	-6.3167E-01	1.0723E-01	-9.5497E-02	-2.4808E-07
5.6000E-01	5.0000E+00	-2.3541E-02	-6.0318E-01	1.0106E-01	-9.7873E-02	-2.1268E-07
5.7000E-01	5.0000E+00	-2.2525E-02	-5.7559E-01	9.5168E-02	-9.9745E-02	-1.8004E-07
5.8000E-01	5.0000E+00	-2.1538E-02	-5.4891E-01	8.9546E-02	-1.0118E-01	-1.4999E-07
5.9000E-01	5.0000E+00	-2.0581E-02	-5.2312E-01	8.4187E-02	-1.0281E-01	-1.2236E-07
6.0000E-01	5.0000E+00	-1.9652E-02	-4.9840E-01	7.9081E-02	-1.0281E-01	-9.7024E-08
6.1000E-01	5.0000E+00	-1.8754E-02	-4.7410E-01	7.4219E-02	-1.0306E-01	-7.3790E-08
6.2000E-01	5.0000E+00	-1.7884E-02	-4.5032E-01	6.9594E-02	-1.0306E-01	-5.2541E-08
6.3000E-01	5.0000E+00	-1.7045E-02	-4.2872E-01	6.5196E-02	-1.0274E-01	-3.3134E-08
6.4000E-01	5.0000E+00	-1.6235E-02	-4.0782E-01	6.1017E-02	-1.0216E-01	-1.5425E-08
6.5000E-01	5.0000E+00	-1.5445E-02	-3.8659E-01	5.7048E-02	-1.0135E-01	6.3473E-10
6.6000E-01	5.0000E+00	-1.4694E-02	-3.6674E-01	5.3282E-02	-1.0033E-01	1.5199E-08
6.7000E-01	5.0000E+00	-1.3967E-02	-3.4768E-01	4.9711E-02	-9.9124E-02	2.8403E-08
6.8000E-01	5.0000E+00	-1.3267E-02	-3.2938E-01	4.6326E-02	-9.7750E-02	4.0287E-08
6.9000E-01	5.0000E+00	-1.2594E-02	-3.1183E-01	4.3121E-02	-9.6230E-02	5.0914E-08
7.0000E-01	5.0000E+00	-1.1947E-02	-2.9501E-01	4.0087E-02	-9.4579E-02	6.0459E-08
7.1000E-01	5.0000E+00	-1.1326E-02	-2.7891E-01	3.7218E-02	-9.2817E-02	6.8998E-08
7.2000E-01	5.0000E+00	-1.0730E-02	-2.6349E-01	3.4507E-02	-9.0956E-02	7.6442E-08
7.3000E-01	5.0000E+00	-1.0158E-02	-2.4874E-01	3.1946E-02	-8.9012E-02	8.3035E-08
7.4000E-01	5.0000E+00	-9.6097E-03	-2.3465E-01	2.9530E-02	-8.6998E-02	8.8849E-08
7.5000E-01	5.0000E+00	-9.0847E-03	-2.2118E-01	2.7251E-02	-8.4926E-02	9.3803E-08
7.6000E-01	5.0000E+00	-8.5822E-03	-2.0833E-01	2.5104E-02	-8.2806E-02	9.8034E-08
7.7000E-01	5.0000E+00	-8.1016E-03	-1.9606E-01	2.3083E-02	-8.0649E-02	1.0166E-07
7.8000E-01	5.0000E+00	-7.6423E-03	-1.8437E-01	2.1181E-02	-7.8465E-02	1.0468E-07
7.9000E-01	5.0000E+00	-7.2035E-03	-1.7323E-01	1.9393E-02	-7.6262E-02	1.0704E-07
8.0000E-01	5.0000E+00	-6.7846E-03	-1.6262E-01	1.7714E-02	-7.4048E-02	1.0894E-07
8.1000E-01	5.0000E+00	-6.3849E-03	-1.5253E-01	1.6139E-02	-7.1830E-02	1.1044E-07
8.2000E-01	5.0000E+00	-6.0039E-03	-1.4293E-01	1.4662E-02	-6.9615E-02	1.1135E-07
8.3000E-01	5.0000E+00	-5.6409E-03	-1.3380E-01	1.3275E-02	-6.7408E-02	1.1192E-07
8.4000E-01	5.0000E+00	-5.2952E-03	-1.2514E-01	1.1985E-02	-6.5215E-02	1.1206E-07
8.5000E-01	5.0000E+00	-4.9663E-03	-1.1691E-01	1.0775E-02	-6.3040E-02	1.1161E-07
8.6000E-01	5.0000E+00	-4.6534E-03	-1.0911E-01	9.6450E-03	-6.0889E-02	1.1006E-07
8.7000E-01	5.0000E+00	-4.3563E-03	-1.0172E-01	8.5912E-03	-5.8765E-02	1.0884E-07
8.8000E-01	5.0000E+00	-4.0746E-03	-9.4717E-02	7.6098E-03	-5.6671E-02	1.0749E-07
8.9000E-01	5.0000E+00	-3.8061E-03	-8.8088E-02	6.6956E-03	-5.4610E-02	1.0602E-07
9.0000E-01	5.0000E+00	-3.5519E-03	-8.1817E-02	5.8484E-03	-5.2586E-02	1.0430E-07
9.1000E-01	5.0000E+00	-3.3111E-03	-7.5990E-02	5.0581E-03	-5.0599E-02	1.0246E-07
9.2000E-01	5.0000E+00	-3.0829E-03	-7.0291E-02	4.3275E-03	-4.8654E-02	1.0056E-07
9.3000E-01	5.0000E+00	-2.8670E-03	-6.5066E-02	3.6512E-03	-4.6750E-02	9.8525E-08
9.4000E-01	5.0000E+00	-2.6627E-03	-6.0022E-02	3.0263E-03	-4.4890E-02	9.6361E-08
9.5000E-01	5.0000E+00	-2.4696E-03	-5.5324E-02	2.4498E-03	-4.3075E-02	9.4173E-08
9.6000E-01	5.0000E+00	-2.2873E-03	-5.0900E-02	1.9189E-03	-4.1306E-02	9.1961E-08
9.7000E-01	5.0000E+00	-2.1151E-03	-4.6737E-02	1.4310E-03	-3.9583E-02	8.9597E-08
9.8000E-01	5.0000E+00	-1.9528E-03	-4.2823E-02	9.6336E-04	-3.7907E-02	8.7244E-08
9.9000E-01	5.0000E+00	-1.7996E-03	-3.9147E-02	5.7371E-04	-3.6270E-02	
1.0000E+00	5.0000E+00	-1.6557E-03	-3.5685E-02	1.8966E-04	-3.4697E-02	

ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.8300E-05	5.5000E-04	0.0000E+00	1.8940E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.8280E+02	0.0000E+00	3.3566E+03	2.7800E+01	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	1.7500E+01					
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E-02	5.422E-09	9.6115E-07	1.2796E-02	3.3599E+00	6.0304E+02	6.0304E+02	1.3713E+04
2.0000E-02	3.3465E-09	4.2304E-08	1.2611E-02	1.5704E+00	2.7365E+02	2.7365E+02	2.5046E+04
3.0000E-02	3.3424E-09	-1.6342E-07	8.6679E-03	8.1152E-01	1.3351E+02	1.3351E+02	2.2768E+04
4.0000E-02	3.0814E-09	-8.3890E-08	5.5712E-03	5.5927E-01	9.6638E+01	9.6638E+01	2.0536E+04
5.0000E-02	2.7161E-09	-2.0926E-08	3.8666E-03	4.5546E-01	7.5617E+01	7.5617E+01	1.7990E+04
6.0000E-02	2.3831E-09	9.6393E-09	2.9648E-03	3.9540E-01	6.4728E+01	6.4728E+01	1.5670E+04
8.0000E-02	1.8295E-09	2.1845E-08	2.4539E-03	3.5270E-01	5.8898E+01	5.8898E+01	1.3667E+04
1.0000E-01	1.6101E-09	2.6116E-08	1.8683E-03	3.1797E-01	5.2559E+01	5.2559E+01	1.1961E+04
1.0000E-01	1.4230E-09	2.6116E-08	1.8683E-03	2.8776E-01	4.7174E+01	4.7174E+01	1.0514E+04
1.0000E-01	1.2604E-09	2.5815E-08	1.8968E-03	2.6040E-01	4.2431E+01	4.2431E+01	9.2820E+03
1.0000E-01	1.1708E-09	2.4920E-08	1.8316E-03	2.3684E-01	3.9206E+01	3.9206E+01	8.2246E+03
1.0000E-01	9.8932E-10	2.0923E-08	1.3883E-03	2.1466E-01	3.5284E+01	3.5284E+01	7.3129E+03
1.0000E-01	8.9375E-10	1.6950E-08	1.2583E-03	1.9445E-01	3.1746E+01	3.1746E+01	6.5222E+03
1.0000E-01	8.0073E-10	1.1102E-08	1.1407E-03	1.7623E-01	2.9320E+01	2.9320E+01	5.8313E+03
1.0000E-01	7.1862E-10	8.588E-08	1.0399E-03	1.5987E-01	2.6359E+01	2.6359E+01	5.2240E+03
1.0000E-01	6.4561E-10	6.4050E-08	9.3665E-04	1.4470E-01	2.3683E+01	2.3683E+01	4.6885E+03
1.0000E-01	5.8098E-10	4.2533E-08	8.4823E-04	1.3074E-01	2.1845E+01	2.1845E+01	4.2141E+03
1.0000E-01	5.2304E-10	3.1431E-08	7.6765E-04	1.1845E-01	1.9599E+01	1.9599E+01	3.7907E+03
2.0000E-01	4.7110E-10	2.0292E-08	6.9412E-04	1.0702E-01	1.7565E+01	1.7565E+01	3.4128E+03
2.0000E-01	4.2440E-10	9.1550E-09	6.2707E-04	9.6476E-02	1.5721E+01	1.5721E+01	3.0748E+03
2.0000E-01	3.8228E-10	8.2307E-09	5.6588E-04	8.6981E-02	1.4451E+01	1.4451E+01	2.7697E+03
2.0000E-01	3.4423E-10	6.5282E-09	4.5872E-04	7.8296E-02	1.2894E+01	1.2894E+01	2.4949E+03
2.0000E-01	3.0976E-10	5.1172E-09	4.1192E-04	7.0234E-02	1.1480E+01	1.1480E+01	2.2470E+03
2.0000E-01	2.8007E-10	3.7849E-10	3.6902E-04	6.2869E-02	1.0504E+01	1.0504E+01	2.0272E+03
2.0000E-01	2.5007E-10	2.4785E-09	3.2970E-04	5.0091E-02	9.3053E+00	9.3053E+00	1.8163E+03
2.0000E-01	2.2420E-10	1.8372E-09	2.9368E-04	4.4350E-02	8.2141E+00	8.2141E+00	1.6466E+03
2.0000E-01	2.0062E-10	1.3543E-09	2.6066E-04	3.9270E-02	7.2702E+00	7.2702E+00	1.4646E+03
2.0000E-01	1.7910E-10	9.8733E-09	2.3033E-04	3.4539E-02	6.5333E+00	6.5333E+00	1.3107E+03
3.0000E-01	1.5945E-10	7.0033E-09	2.0325E-04	3.0193E-02	5.6889E+00	5.6889E+00	1.1705E+03
3.0000E-01	1.4149E-10	4.9877E-09	1.7704E-04	2.6193E-02	4.9195E+00	4.9195E+00	1.0425E+03
3.0000E-01	1.2607E-10	3.6296E-09	1.5364E-04	2.2523E-02	4.3879E+00	4.3879E+00	9.2544E+02
3.0000E-01	1.1005E-10	2.718E-09	1.3219E-04	1.9143E-02	3.7346E+00	3.7346E+00	8.1832E+02
3.0000E-01	9.6300E-11	1.254E-09	1.1254E-04	1.6034E-02	3.1400E+00	3.1400E+00	7.2044E+02
3.0000E-01	8.3717E-11	6.7435E-10	9.5450E-05	1.3268E-02	2.7296E+00	2.7296E+00	6.3090E+02
3.0000E-01	7.2041E-11	4.1127E-10	7.8056E-05	1.0693E-02	2.2626E+00	2.2626E+00	5.4873E+02
3.0000E-01	6.1670E-11	1.5181E-10	6.2994E-05	8.3081E-03	1.7692E+00	1.7692E+00	4.7373E+02
3.0000E-01	5.2037E-11	-4.8853E-11	4.9244E-05	6.1919E-03	1.3547E+00	1.3547E+00	4.0514E+02
3.0000E-01	4.3233E-11	-2.3801E-10	3.6691E-05	4.2510E-03	1.0698E+00	1.0698E+00	3.4227E+02
4.0000E-01	3.5193E-11	-4.2461E-10	2.5261E-05	2.4579E-03	7.2200E-01	7.2200E-01	2.8484E+02
4.0000E-01	2.7857E-11	-5.8456E-10	1.4879E-05	1.4879E-03	4.0811E-01	4.0811E-01	2.3454E+02
4.0000E-01	2.1172E-11	-7.1635E-10	5.4504E-06	8.4634E-04	1.9337E-01	1.9337E-01	1.6461E+02
4.0000E-01	1.5087E-11	-8.4623E-10	-3.0875E-06	5.9295E-04	-6.7368E-02	-6.7368E-02	1.0966E+02
4.0000E-01	9.581E-12	-1.0791E-09	-1.0791E-09	1.9152E-03	-3.0097E-01	-3.0097E-01	6.127E+02
4.0000E-01	4.5430E-12	-1.0568E-09	-1.7126E-09	-3.187E-03	-4.5965E-01	-4.5965E-01	6.2331E+01
4.0000E-01	3.3919E-15	-1.428E-09	-2.3959E-09	4.1608E-03	-6.5079E-01	-6.5079E-01	3.2453E+01
4.0000E-01	-4.0680E-12	-1.250E-09	-2.9527E-09	-5.100E-03	-8.2025E-01	-8.2025E-01	2.8126E+00
4.0000E-01	-7.7878E-12	-1.2868E-09	-3.4481E-09	-6.7103E-03	-9.6975E-01	-9.6975E-01	-2.3932E+01
4.0000E-01					-1.0697E+00	-1.0697E+00	-4.8062E+01

4.9000E-01 -1.1102E-11  
5.0000E-01 -1.4068E-11  
5.1000E-01 -1.6710E-11  
5.2000E-01 -1.9054E-11  
5.3000E-01 -2.1120E-11  
5.4000E-01 -2.2932E-11  
5.5000E-01 -2.4507E-11  
5.6000E-01 -2.5865E-11  
5.7000E-01 -2.7022E-11  
5.8000E-01 -2.7995E-11  
5.9000E-01 -2.8797E-11  
6.0000E-01 -2.9443E-11  
6.1000E-01 -2.9946E-11  
6.2000E-01 -3.0318E-11  
6.3000E-01 -3.0570E-11  
6.4000E-01 -3.0712E-11  
6.5000E-01 -3.0748E-11  
6.6000E-01 -3.078E-11  
6.7000E-01 -3.0785E-11  
6.8000E-01 -3.075E-11  
6.9000E-01 -3.0698E-11  
7.0000E-01 -3.0578E-11  
7.1000E-01 -3.0420E-11  
7.2000E-01 -3.0179E-11  
7.3000E-01 -2.9848E-11  
7.4000E-01 -2.9533E-11  
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7.9000E-01 -2.8245E-11  
8.0000E-01 -2.8054E-11  
8.1000E-01 -2.7891E-11  
8.2000E-01 -2.7745E-11  
8.3000E-01 -2.7615E-11  
8.4000E-01 -2.7501E-11  
8.5000E-01 -2.7402E-11  
8.6000E-01 -2.7317E-11  
8.7000E-01 -2.7245E-11  
8.8000E-01 -2.7186E-11  
8.9000E-01 -2.7138E-11  
9.0000E-01 -2.7099E-11  
9.1000E-01 -2.7069E-11  
9.2000E-01 -2.7047E-11  
9.3000E-01 -2.7033E-11  
9.4000E-01 -2.7026E-11  
9.5000E-01 -2.7025E-11  
9.6000E-01 -2.7029E-11  
9.7000E-01 -2.7037E-11  
9.8000E-01 -2.7049E-11  
9.9000E-01 -2.7064E-11  
1.0000E+00 -2.7082E-11  
-6.9734E+01 -1.1881E+00  
-8.9109E+01 -1.2905E+00  
-1.0638E+02 -1.3577E+00  
-1.2173E+02 -1.4355E+00  
-1.3526E+02 -1.5008E+00  
-1.4715E+02 -1.5546E+00  
-1.5635E+02 -1.5880E+00  
-1.6338E+02 -1.6241E+00  
-1.7398E+02 -1.6513E+00  
-1.8038E+02 -1.6788E+00  
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-1.9328E+02 -1.6897E+00  
-1.9577E+02 -1.6937E+00  
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-1.9777E+02 -1.6051E+00  
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-1.778E+02 -1.3692E+00  
-1.741E+02 -1.3313E+00  
-1.7034E+02 -1.2928E+00  
-1.6647E+02 -1.2637E+00  
-1.6235E+02 -1.2246E+00  
-1.5827E+02 -1.1854E+00  
-1.5410E+02 -1.170E+00  
-1.4987E+02 -1.0781E+00  
-1.4561E+02 -1.0396E+00  
-1.4134E+02 -1.0110E+00  
-1.3708E+02 -9.7327E-01  
-1.3279E+02 -9.3610E-01  
-1.2855E+02 -9.0863E-01  
-1.2433E+02 -8.7259E-01  
-1.2015E+02 -8.3727E-01  
-1.1602E+02 -8.0270E-01  
-1.1194E+02 -7.7730E-01  
-1.0792E+02 -7.4415E-01  
-1.0397E+02 -7.1186E-01  
-1.0009E+02 -6.820E-01  
-9.6291E+01 -6.5743E-01  
-9.2562E+01 -6.343E-01  
-8.8920E+01 -6.2756E-01  
-8.5369E+01 -6.0574E-01  
-8.1892E+01 -5.7745E-01  
-7.8509E+01 -5.5007E-01  
-7.5007E-01 -1.1881E+00  
-7.2905E+00 -1.2905E+00  
-7.0638E+00 -1.3577E+00  
-6.8173E+00 -1.4355E+00  
-6.5526E+00 -1.5008E+00  
-6.2715E+00 -1.5546E+00  
-5.9635E+00 -1.5880E+00  
-5.6338E+00 -1.6241E+00  
-5.2938E+00 -1.6513E+00  
-4.9438E+00 -1.6788E+00  
-4.5867E+00 -1.6865E+00  
-4.2238E+00 -1.6874E+00  
-3.8567E+00 -1.6897E+00  
-3.4848E+00 -1.6937E+00  
-3.1081E+00 -1.6949E+00  
-2.7266E+00 -1.6915E+00  
-2.3401E+00 -1.6488E+00  
-1.9486E+00 -1.6286E+00  
-1.5521E+00 -1.6051E+00  
-1.1516E+00 -1.5855E+00  
-7.5007E-01 -1.5572E+00  
-1.3487E-01 -1.5267E+00  
-2.1458E-01 -1.5024E+00  
-2.9429E-01 -1.4687E+00  
-3.7400E-01 -1.4335E+00  
-4.5371E-01 -1.3971E+00  
-5.3342E-01 -1.3692E+00  
-6.1313E-01 -1.3313E+00  
-6.9284E-01 -1.2928E+00  
-7.7255E-01 -1.2637E+00  
-8.5226E-01 -1.2246E+00  
-9.3197E-01 -1.1854E+00  
-1.0116E+00 -1.170E+00  
-1.1039E+00 -1.0781E+00  
-1.1962E+00 -1.0396E+00  
-1.2885E+00 -1.0110E+00  
-1.3808E+00 -9.7327E-01  
-1.4731E+00 -9.3610E-01  
-1.5654E+00 -9.0863E-01  
-1.6577E+00 -8.7259E-01  
-1.7499E+00 -8.3727E-01  
-1.8422E+00 -8.0270E-01  
-1.9345E+00 -7.7730E-01  
-2.0268E+00 -7.4415E-01  
-2.1191E+00 -7.1186E-01  
-2.2114E+00 -6.820E-01  
-2.3037E+00 -6.5743E-01  
-2.3960E+00 -6.343E-01  
-2.4883E+00 -6.2756E-01  
-2.5806E+00 -6.0574E-01  
-2.6729E+00 -5.7745E-01  
-2.7652E+00 -5.5007E-01  
-2.8575E+00 -5.2907E-01  
-2.9498E+00 -5.0639E-01  
-3.0421E+00 -4.8371E-01  
-3.1344E+00 -4.6145E-01  
-3.2267E+00 -4.3920E-01  
-3.3190E+00 -4.1564E-01  
-3.4113E+00 -3.9043E-01  
-3.5036E+00 -3.6462E-01  
-3.5959E+00 -3.3881E-01  
-3.6882E+00 -3.1320E-01  
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-3.8728E+00 -2.6597E-01  
-3.9651E+00 -2.4635E-01  
-4.0574E+00 -2.2573E-01  
-4.1497E+00 -2.0761E-01  
-4.2420E+00 -1.9241E-01  
-4.3343E+00 -1.7971E-01  
-4.4266E+00 -1.6511E-01  
-4.5189E+00 -1.4861E-01  
-4.6112E+00 -1.3071E-01  
-4.7035E+00 -1.0941E-01  
-4.7958E+00 -8.4911E-02  
-4.8881E+00 -6.6461E-02  
-4.9804E+00 -4.6011E-02  
-5.0727E+00 -2.6011E-02  
-5.1650E+00 -6.6461E-03  
-5.2573E+00 -4.6011E-03  
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-5.5342E+00 -4.6011E-04  
-5.6265E+00 -2.6011E-04  
-5.7188E+00 -6.6461E-05  
-5.8111E+00 -4.6011E-05  
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-6.0880E+00 -4.6011E-06  
-6.1803E+00 -2.6011E-06  
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-6.3649E+00 -4.6011E-07  
-6.4572E+00 -2.6011E-07  
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-6.6418E+00 -4.6011E-08  
-6.7341E+00 -2.6011E-08  
-6.8264E+00 -6.6461E-09  
-6.9187E+00 -4.6011E-09  
-7.0110E+00 -2.6011E-09  
-7.1033E+00 -6.6461E-10  
-7.1956E+00 -4.6011E-10  
-7.2879E+00 -2.6011E-10  
-7.3802E+00 -6.6461E-11  
-7.4725E+00 -4.6011E-11  
-7.5648E+00 -2.6011E-11  
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-7.7494E+00 -4.6011E-12  
-7.8417E+00 -2.6011E-12  
-7.9340E+00 -6.6461E-13  
-8.0263E+00 -4.6011E-13  
-8.1186E+00 -2.6011E-13  
-8.2109E+00 -6.6461E-14  
-8.3032E+00 -4.6011E-14  
-8.3955E+00 -2.6011E-14  
-8.4878E+00 -6.6461E-15  
-8.5801E+00 -4.6011E-15  
-8.6724E+00 -2.6011E-15  
-8.7647E+00 -6.6461E-16  
-8.8570E+00 -4.6011E-16  
-8.9493E+00 -2.6011E-16  
-9.0416E+00 -6.6461E-17  
-9.1339E+00 -4.6011E-17  
-9.2262E+00 -2.6011E-17  
-9.3185E+00 -6.6461E-18  
-9.4108E+00 -4.6011E-18  
-9.5031E+00 -2.6011E-18  
-9.5954E+00 -6.6461E-19  
-9.6877E+00 -4.6011E-19  
-9.7800E+00 -2.6011E-19  
-9.8723E+00 -6.6461E-20  
-9.9646E+00 -4.6011E-20  
-1.0000E+00 -2.6011E-20



ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

1. 0.000E-05 7. 4254E+05 9. 0.0500E+01 0. 0500E+01 1. 0000E+00 0. 0000E+00 5. 0000E+00 3. 1000E+02  
1. 8330E-05 5. 9000E-04 0. 0000E+00 1. 6840E+03 1. 6840E+03 1. 0490E+08 2. 5600E+01 7. 4400E+01 1. 7140E+00  
1. 6280E+02 0. 0000E+00 3. 3566E+03 2. 7800E+01 2. 7800E+01 1. 7760E-02 2. 5500E-10 8. 3283E-09 1. 8500E-06  
7. 4000E+00 2. 4000E+00 1. 7500E+01

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE
0. 0000E+00	0. 0000E+00	0. 0000E+00	0. 0000E+00	0. 0000E+00
1. 0000E-02	2. 4354E+02	9. 1571E-01	4. 1109E-09	0. 0000E+00
2. 0000E-02	3. 9967E+02	4. 3256E+00	4. 8645E-08	0. 0000E+00
3. 0000E-02	4. 0436E+02	8. 4151E+00	1. 5919E-07	0. 0000E+00
4. 0000E-02	3. 6471E+02	1. 2273E+01	3. 3331E-07	0. 0000E+00
5. 0000E-02	3. 1949E+02	1. 5693E+01	5. 5993E-07	0. 0000E+00
6. 0000E-02	2. 7829E+02	1. 8678E+01	8. 2738E-07	0. 0000E+00
7. 0000E-02	2. 4272E+02	2. 1278E+01	1. 1254E-06	0. 0000E+00
8. 0000E-02	2. 1243E+02	2. 3549E+01	1. 4855E-06	0. 0000E+00
9. 0000E-02	1. 8673E+02	2. 5547E+01	1. 7807E-06	0. 0000E+00
1. 0000E-01	1. 6465E+02	2. 7207E+01	2. 1253E-06	0. 0000E+00
1. 2000E-01	1. 4607E+02	2. 8846E+01	2. 4748E-06	0. 0000E+00
1. 4000E-01	1. 2988E+02	3. 0272E+01	2. 8544E-06	0. 0000E+00
1. 6000E-01	1. 1583E+02	3. 1846E+01	3. 1741E-06	0. 0000E+00
1. 8000E-01	1. 0356E+02	3. 3530E+01	3. 5187E-06	0. 0000E+00
2. 0000E-01	8. 3268E+01	3. 4408E+01	3. 8571E-06	0. 0000E+00
2. 2000E-01	7. 4842E+01	3. 5198E+01	4. 1880E-06	0. 0000E+00
2. 4000E-01	6. 7323E+01	3. 5909E+01	4. 5101E-06	0. 0000E+00
2. 6000E-01	6. 0612E+01	3. 6548E+01	4. 8226E-06	0. 0000E+00
2. 8000E-01	5. 4601E+01	3. 7124E+01	5. 1248E-06	0. 0000E+00
3. 0000E-01	4. 9189E+01	3. 7642E+01	5. 4163E-06	0. 0000E+00
3. 2000E-01	4. 4310E+01	3. 8109E+01	5. 6967E-06	0. 0000E+00
3. 4000E-01	3. 9906E+01	3. 8530E+01	5. 9659E-06	0. 0000E+00
3. 6000E-01	3. 5917E+01	3. 8909E+01	6. 2238E-06	0. 0000E+00
3. 8000E-01	3. 2293E+01	3. 9249E+01	6. 4704E-06	0. 0000E+00
4. 0000E-01	2. 9003E+01	3. 9556E+01	6. 7058E-06	0. 0000E+00
4. 2000E-01	2. 6012E+01	3. 9830E+01	6. 9302E-06	0. 0000E+00
4. 4000E-01	2. 3279E+01	4. 0077E+01	7. 1438E-06	0. 0000E+00
4. 6000E-01	2. 0787E+01	4. 0297E+01	7. 3468E-06	0. 0000E+00
4. 8000E-01	1. 8515E+01	4. 0493E+01	7. 5394E-06	0. 0000E+00
5. 0000E-01	1. 6436E+01	4. 0666E+01	7. 7220E-06	0. 0000E+00
5. 2000E-01	1. 4533E+01	4. 0823E+01	7. 8949E-06	0. 0000E+00
5. 4000E-01	1. 2795E+01	4. 0958E+01	8. 0594E-06	0. 0000E+00
5. 6000E-01	1. 1205E+01	4. 1079E+01	8. 2128E-06	0. 0000E+00
5. 8000E-01	9. 7484E+00	4. 1184E+01	8. 3588E-06	0. 0000E+00
6. 0000E-01	8. 4134E+00	4. 1274E+01	8. 4950E-06	0. 0000E+00
6. 2000E-01	7. 1952E+00	4. 1352E+01	8. 6250E-06	0. 0000E+00
6. 4000E-01	6. 0787E+00	4. 1419E+01	8. 7465E-06	0. 0000E+00
6. 6000E-01	5. 0588E+00	4. 1474E+01	8. 8607E-06	0. 0000E+00
6. 8000E-01	4. 1282E+00	4. 1520E+01	8. 9678E-06	0. 0000E+00
7. 0000E-01	3. 2786E+00	4. 1557E+01	9. 0681E-06	0. 0000E+00
7. 2000E-01	2. 5034E+00	4. 1586E+01	9. 1620E-06	0. 0000E+00
7. 4000E-01	1. 7986E+00	4. 1607E+01	9. 2498E-06	0. 0000E+00
7. 6000E-01	1. 1585E+00	4. 1622E+01	9. 3318E-06	0. 0000E+00
7. 8000E-01	5. 7637E-01	4. 1631E+01	9. 4083E-06	0. 0000E+00
8. 0000E-01	4. 9953E-02	4. 1634E+01	9. 4795E-06	0. 0000E+00
8. 2000E-01	-4. 2504E-01	4. 1632E+01	9. 5457E-06	0. 0000E+00
8. 4000E-01	-8. 5368E-01	4. 1625E+01	9. 6073E-06	0. 0000E+00
8. 6000E-01		4. 1625E+01	9. 6643E-06	0. 0000E+00

4.9000E-01	-1.2385E+00	4.1615E+01	9.7172E-06	0.0000E+00
5.0000E-01	-1.5826E+00	4.1601E+01	9.7660E-06	0.0000E+00
5.1000E-01	-1.8894E+00	4.1583E+01	9.8111E-06	0.0000E+00
5.2000E-01	-2.1619E+00	4.1563E+01	9.8526E-06	0.0000E+00
5.3000E-01	-2.4022E+00	4.1540E+01	9.8908E-06	0.0000E+00
5.4000E-01	-2.6128E+00	4.1515E+01	9.9258E-06	0.0000E+00
5.5000E-01	-2.7965E+00	4.1488E+01	9.9579E-06	0.0000E+00
5.6000E-01	-2.9548E+00	4.1459E+01	9.9872E-06	0.0000E+00
5.7000E-01	-3.0898E+00	4.1429E+01	1.0014E-05	0.0000E+00
5.8000E-01	-3.2035E+00	4.1398E+01	1.0038E-05	0.0000E+00
5.9000E-01	-3.2976E+00	4.1365E+01	1.0060E-05	0.0000E+00
6.0000E-01	-3.3735E+00	4.1332E+01	1.0080E-05	0.0000E+00
6.1000E-01	-3.4328E+00	4.1298E+01	1.0097E-05	0.0000E+00
6.2000E-01	-3.4769E+00	4.1263E+01	1.0113E-05	0.0000E+00
6.3000E-01	-3.5072E+00	4.1228E+01	1.0127E-05	0.0000E+00
6.4000E-01	-3.5248E+00	4.1193E+01	1.0140E-05	0.0000E+00
6.5000E-01	-3.5308E+00	4.1158E+01	1.0151E-05	0.0000E+00
6.6000E-01	-3.5263E+00	4.1122E+01	1.0160E-05	0.0000E+00
6.7000E-01	-3.5124E+00	4.1087E+01	1.0169E-05	0.0000E+00
6.8000E-01	-3.4899E+00	4.1052E+01	1.0178E-05	0.0000E+00
6.9000E-01	-3.4596E+00	4.1017E+01	1.0187E-05	0.0000E+00
7.0000E-01	-3.4225E+00	4.0982E+01	1.0197E-05	0.0000E+00
7.1000E-01	-3.3793E+00	4.0948E+01	1.0190E-05	0.0000E+00
7.2000E-01	-3.3304E+00	4.0915E+01	1.0194E-05	0.0000E+00
7.3000E-01	-3.2768E+00	4.0882E+01	1.0196E-05	0.0000E+00
7.4000E-01	-3.2190E+00	4.0850E+01	1.0197E-05	0.0000E+00
7.5000E-01	-3.1574E+00	4.0818E+01	1.0198E-05	0.0000E+00
7.6000E-01	-3.0927E+00	4.0787E+01	1.0198E-05	0.0000E+00
7.7000E-01	-3.0253E+00	4.0756E+01	1.0198E-05	0.0000E+00
7.8000E-01	-2.9557E+00	4.0726E+01	1.0197E-05	0.0000E+00
7.9000E-01	-2.8840E+00	4.0697E+01	1.0196E-05	0.0000E+00
8.0000E-01	-2.8109E+00	4.0669E+01	1.0194E-05	0.0000E+00
8.1000E-01	-2.7369E+00	4.0641E+01	1.0192E-05	0.0000E+00
8.2000E-01	-2.6617E+00	4.0614E+01	1.0189E-05	0.0000E+00
8.3000E-01	-2.5860E+00	4.0588E+01	1.0186E-05	0.0000E+00
8.4000E-01	-2.5102E+00	4.0562E+01	1.0183E-05	0.0000E+00
8.5000E-01	-2.4343E+00	4.0537E+01	1.0180E-05	0.0000E+00
8.6000E-01	-2.3584E+00	4.0513E+01	1.0177E-05	0.0000E+00
8.7000E-01	-2.2830E+00	4.0490E+01	1.0173E-05	0.0000E+00
8.8000E-01	-2.2082E+00	4.0468E+01	1.0169E-05	0.0000E+00
8.9000E-01	-2.1338E+00	4.0445E+01	1.0165E-05	0.0000E+00
9.0000E-01	-2.0604E+00	4.0422E+01	1.0161E-05	0.0000E+00
9.1000E-01	-1.9881E+00	4.0400E+01	1.0157E-05	0.0000E+00
9.2000E-01	-1.9167E+00	4.0385E+01	1.0153E-05	0.0000E+00
9.3000E-01	-1.8465E+00	4.0367E+01	1.0149E-05	0.0000E+00
9.4000E-01	-1.7777E+00	4.0348E+01	1.0144E-05	0.0000E+00
9.5000E-01	-1.7101E+00	4.0331E+01	1.0140E-05	0.0000E+00
9.6000E-01	-1.6439E+00	4.0314E+01	1.0136E-05	0.0000E+00
9.7000E-01	-1.5792E+00	4.0298E+01	1.0132E-05	0.0000E+00
9.8000E-01	-1.5161E+00	4.0283E+01	1.0128E-05	0.0000E+00
9.9000E-01	-1.4544E+00	4.0268E+01	1.0123E-05	0.0000E+00
1.0000E+00	-1.3943E+00	4.0253E+01	1.0119E-05	0.0000E+00

Appendix #27.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
1.0000E-05	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.6280E+02	0.0000E+00	3.3566E+03	2.7800E+01	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	1.7500E+01					
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9.0000E-04	0.0000E+00	-9.8016E-08	-3.0373E-05	-7.0843E-02	-3.0637E-05	-7.1096E+02	0.0077E-00
1.8000E-03	0.0000E+00	-1.9809E-07	-1.2392E-04	-1.4034E-01	-1.2613E-04	-1.4097E-01	-3.0504E-05
2.7000E-03	0.0000E+00	-2.9736E-07	-2.7413E-04	-2.0422E-01	-2.8159E-04	-2.0567E-01	-3.0412E-05
3.6000E-03	0.0000E+00	-3.7718E-07	-4.1113E-04	-2.5157E-01	-4.8857E-04	-2.5401E-01	-2.2504E-05
4.5000E-03	0.0000E+00	-4.2637E-07	-6.9394E-04	-2.7481E-01	-7.2708E-04	-2.7825E-01	-1.4416E-05
5.4000E-03	0.0000E+00	-4.4579E-07	-9.2116E-04	-2.7529E-01	-9.7612E-04	-2.8017E-01	-6.4255E-06
6.3000E-03	0.0000E+00	-4.4536E-07	-1.1357E-03	-2.8189E-01	-1.2185E-03	-2.8808E-01	-2.824E-06
7.2000E-03	0.0000E+00	-4.3297E-07	-1.3293E-03	-2.4108E-01	-1.4454E-03	-2.4830E-01	6.3160E-07
8.1000E-03	0.0000E+00	-4.0897E-07	-1.4960E-03	-2.1317E-01	-1.6503E-03	-2.2143E-01	4.3501E-06
9.0000E-03	0.0000E+00	-3.7818E-07	-1.6316E-03	-1.8210E-01	-1.8282E-03	-1.6125E-01	5.7469E-06
1.0800E-02	0.0000E+00	-3.4444E-07	-1.7359E-03	-1.5074E-01	-1.9780E-03	-1.6063E-01	7.0896E-06
1.1700E-02	0.0000E+00	-3.0783E-07	-1.8094E-03	-1.1911E-01	-2.0994E-03	-1.2961E-01	8.3591E-06
1.2600E-02	0.0000E+00	-2.7049E-07	-1.8532E-03	-8.8732E-02	-2.1928E-03	-9.9896E-02	8.5997E-06
1.3500E-02	0.0000E+00	-2.3411E-07	-1.8700E-03	-6.8700E-02	-2.2599E-03	-7.2000E-02	8.8101E-06
1.4400E-02	0.0000E+00	-1.9665E-07	-1.8624E-03	-5.0700E-02	-2.3027E-03	-4.8348E-02	8.9703E-06
1.5300E-02	0.0000E+00	-1.6401E-07	-1.8315E-03	-3.4634E-02	-2.3234E-03	-2.3163E-02	8.7121E-06
1.6200E-02	0.0000E+00	-1.3245E-07	-1.7852E-03	-2.1548E-02	-2.3243E-03	-2.7173E-02	8.4249E-06
1.7100E-02	0.0000E+00	-1.0426E-07	-1.7216E-03	-1.5400E-02	-2.3081E-03	-1.5197E-02	8.1062E-06
1.8000E-02	0.0000E+00	-7.8442E-08	-1.6450E-03	-1.0218E-02	-2.2770E-03	-3.0633E-02	7.6699E-06
1.8900E-02	0.0000E+00	-5.3092E-08	-1.5580E-03	-6.5380E-02	-2.2332E-03	-4.3669E-02	7.2114E-06
1.9800E-02	0.0000E+00	-3.1145E-08	-1.4839E-03	-4.2018E-02	-2.1790E-03	-5.4485E-02	6.7353E-06
2.0700E-02	0.0000E+00	-1.1468E-08	-1.3820E-03	-2.8883E-02	-2.1162E-03	-6.3302E-02	6.2768E-06
2.1600E-02	0.0000E+00	6.0563E-09	-1.2570E-03	-8.0544E-02	-2.0465E-03	-7.0312E-02	5.8038E-06
2.2500E-02	0.0000E+00	2.1486E-08	-1.1496E-03	-5.5508E-02	-1.8931E-03	-7.5649E-02	5.3226E-06
2.3400E-02	0.0000E+00	3.5038E-08	-1.0414E-03	-3.3535E-04	-1.8931E-03	-7.9559E-02	4.9088E-06
2.4300E-02	0.0000E+00	4.6892E-08	-9.2701E-04	-9.1298E-02	-1.7291E-03	-8.2239E-02	4.4888E-06
2.5200E-02	0.0000E+00	5.7094E-08	-8.2276E-04	-9.2429E-02	-1.6457E-03	-8.3783E-02	4.0856E-06
2.6100E-02	0.0000E+00	6.5859E-08	-7.2276E-04	-9.2630E-02	-1.5487E-03	-8.401E-02	3.7311E-06
2.7000E-02	0.0000E+00	7.3384E-08	-6.2145E-04	-9.2074E-02	-1.4826E-03	-8.4261E-02	3.3700E-06
2.7900E-02	0.0000E+00	7.9643E-08	-5.2365E-04	-9.0819E-02	-1.4802E-03	-8.3416E-02	3.0262E-06
2.8800E-02	0.0000E+00	8.4879E-08	-4.2982E-04	-8.9030E-02	-1.3992E-03	-8.203E-02	2.7511E-06
2.9700E-02	0.0000E+00	8.9220E-08	-3.4027E-04	-8.6836E-02	-1.3201E-03	-8.0235E-02	2.4754E-06
3.0600E-02	0.0000E+00	9.2690E-08	-2.5522E-04	-8.4267E-02	-1.2431E-03	-7.8052E-02	2.2029E-06
3.1500E-02	0.0000E+00	9.5432E-08	-1.7484E-04	-8.1440E-02	-1.1685E-03	-7.5598E-02	1.9891E-06
3.2400E-02	0.0000E+00	9.7561E-08	-9.191E-05	-7.8444E-02	-1.0965E-03	-7.2962E-02	1.7767E-06
3.3300E-02	0.0000E+00	9.9094E-08	-2.8288E-05	-7.5292E-02	-1.0273E-03	-7.0156E-02	1.5682E-06
3.4200E-02	0.0000E+00	1.0013E-07	7.8883E-05	-7.2082E-02	-9.6101E-04	-6.7257E-02	1.4052E-06
3.5100E-02	0.0000E+00	1.0077E-07	9.9414E-05	-6.8811E-02	-8.9761E-04	-6.4323E-02	1.2444E-06
3.6000E-02	0.0000E+00	1.0101E-07	1.5641E-04	-6.5541E-02	-8.3716E-04	-6.1355E-02	1.0878E-06
3.6900E-02	0.0000E+00	1.0093E-07	2.0899E-04	-6.2300E-02	-7.7963E-04	-5.8401E-02	9.6505E-07
3.7800E-02	0.0000E+00	1.0058E-07	2.5732E-04	-5.9123E-02	-7.2500E-04	-5.5498E-02	8.4498E-07
3.8700E-02	0.0000E+00	9.9966E-08	3.0157E-04	-5.6006E-02	-6.7319E-04	-5.2640E-02	7.2874E-07
3.9600E-02	0.0000E+00	9.9203E-08	3.4191E-04	-5.2977E-02	-6.2416E-04	-4.9856E-02	6.3724E-07
4.0500E-02	0.0000E+00	9.8252E-08	3.7853E-04	-5.0055E-02	-5.7780E-04	-4.7166E-02	5.4641E-07
4.1400E-02	0.0000E+00	9.7146E-08	4.1163E-04	-4.7231E-02	-5.3403E-04	-4.4561E-02	4.6299E-07
4.2300E-02	0.0000E+00	9.5922E-08	4.4139E-04	-4.4522E-02	-4.9275E-04	-4.2059E-02	3.9533E-07

4. 3200E-02 0. 0000E+00 9. 4608E-08 4. 6800E-04 4. 1936E-02 1. 4168E-05 9. 232E-03 3. 9667E-02 3. 3014E-07  
0. 0000E+00 9. 3207E-08 4. 9168E-04 4. 9168E-04 3. 9464E-02 1. 4168E-05 9. 232E-03 3. 9667E-02 3. 3014E-07  
4. 3100E-02 0. 0000E+00 9. 1741E-08 5. 1255E-04 3. 7112E-02 4. 1723E-04 3. 7378E-02 2. 6789E-07  
4. 5000E-02 0. 0000E+00 8. 8676E-08 5. 3085E-04 3. 4684E-02 3. 8278E-04 3. 5198E-02 2. 1876E-07  
4. 6800E-02 0. 0000E+00 8. 7094E-08 5. 4673E-04 3. 2769E-02 3. 2769E-02 3. 1332E-02 1. 7082E-07  
4. 7700E-02 0. 0000E+00 8. 5498E-08 5. 6036E-04 3. 0769E-02 2. 9137E-04 2. 9137E-02 1. 2582E-07  
4. 8600E-02 0. 0000E+00 8. 3883E-08 5. 7191E-04 2. 8684E-02 2. 6454E-04 2. 5912E-02 8. 9754E-08  
4. 9500E-02 0. 0000E+00 8. 2264E-08 5. 8152E-04 2. 7105E-02 2. 3935E-04 2. 5908E-02 5. 5557E-08  
5. 0400E-02 0. 0000E+00 8. 0649E-08 5. 9515E-04 2. 5430E-02 2. 1572E-04 2. 4351E-02 2. 3364E-08  
5. 1300E-02 0. 0000E+00 7. 9036E-08 6. 0017E-04 2. 3856E-02 1. 9355E-04 2. 2889E-02 2. 687E-09  
5. 2200E-02 0. 0000E+00 7. 7432E-08 6. 0017E-04 2. 2377E-02 1. 7275E-04 2. 1513E-02 4. 9580E-08  
5. 3100E-02 0. 0000E+00 7. 5828E-08 6. 0342E-04 2. 0889E-02 1. 5324E-04 2. 0233E-02 6. 7867E-08  
5. 4000E-02 0. 0000E+00 7. 4268E-08 6. 0540E-04 1. 9689E-02 1. 3494E-04 1. 9014E-02 8. 4874E-08  
5. 4900E-02 0. 0000E+00 7. 2708E-08 6. 0621E-04 1. 8689E-02 1. 1778E-04 1. 7881E-02 1. 0059E-07  
5. 5800E-02 0. 0000E+00 7. 1171E-08 6. 0594E-04 1. 7329E-02 1. 0167E-04 1. 6821E-02 1. 1317E-07  
5. 6700E-02 0. 0000E+00 6. 9654E-08 6. 0471E-04 1. 6282E-02 8. 6560E-05 1. 5829E-02 1. 2473E-07  
5. 7600E-02 0. 0000E+00 6. 8159E-08 6. 0259E-04 1. 5284E-02 5. 2379E-05 1. 5829E-02 1. 2473E-07  
5. 8500E-02 0. 0000E+00 6. 6699E-08 5. 9987E-04 1. 4311E-02 5. 6066E-05 1. 4902E-02 1. 3528E-07  
5. 9400E-02 0. 0000E+00 6. 5243E-08 5. 9603E-04 1. 3459E-02 4. 6565E-05 1. 4035E-02 1. 4359E-07  
6. 0300E-02 0. 0000E+00 6. 3822E-08 5. 9174E-04 1. 2645E-02 3. 4811E-05 1. 3227E-02 1. 5111E-07  
6. 1200E-02 0. 0000E+00 6. 2426E-08 5. 8686E-04 1. 1885E-02 2. 3767E-05 1. 2471E-02 1. 5785E-07  
6. 2100E-02 0. 0000E+00 6. 1057E-08 5. 8146E-04 1. 1176E-02 1. 3413E-05 1. 1766E-02 1. 6299E-07  
6. 3000E-02 0. 0000E+00 5. 9713E-08 5. 7559E-04 1. 0514E-02 2. 6561E-06 1. 0495E-02 1. 6751E-07  
6. 3900E-02 0. 0000E+00 5. 8396E-08 5. 6932E-04 9. 9955E-03 5. 5248E-06 9. 9232E-03 1. 7143E-07  
6. 4800E-02 0. 0000E+00 5. 7105E-08 5. 6268E-04 9. 3192E-03 1. 4168E-05 9. 232E-03 1. 7422E-07  
6. 5700E-02 0. 0000E+00 5. 5839E-08 5. 5672E-04 8. 7812E-03 2. 2311E-05 8. 0927E-03 1. 7654E-07  
6. 6600E-02 0. 0000E+00 5. 4600E-08 5. 4849E-04 8. 2792E-03 2. 9885E-05 8. 4292E-03 1. 7840E-07  
6. 7500E-02 0. 0000E+00 5. 3388E-08 5. 4102E-04 7. 8111E-03 3. 7224E-05 7. 9972E-03 1. 7945E-07  
6. 8400E-02 0. 0000E+00 5. 2198E-08 5. 3355E-04 7. 3741E-03 4. 4055E-05 7. 5944E-03 1. 8015E-07  
6. 9300E-02 0. 0000E+00 5. 1035E-08 5. 2550E-04 6. 8684E-03 5. 0506E-05 7. 2190E-03 1. 8051E-07  
7. 0200E-02 0. 0000E+00 4. 9897E-08 5. 1752E-04 6. 5800E-03 6. 6603E-05 6. 8690E-03 1. 8029E-07  
7. 1100E-02 0. 0000E+00 4. 8784E-08 5. 0942E-04 6. 308E-03 6. 2368E-05 6. 5427E-03 1. 7981E-07  
7. 2000E-02 0. 0000E+00 4. 7694E-08 4. 923E-04 6. 023E-03 6. 7825E-05 6. 2384E-03 1. 7910E-07  
7. 2900E-02 0. 0000E+00 4. 6629E-08 4. 8488E-04 5. 8992E-03 7. 2894E-05 6. 2384E-03 1. 7787E-07  
7. 3800E-02 0. 0000E+00 4. 558E-08 4. 7635E-04 5. 8004E-03 7. 7893E-05 5. 9546E-03 1. 7665E-07  
7. 4700E-02 0. 0000E+00 4. 4567E-08 4. 6802E-04 5. 7001E-03 8. 2540E-05 5. 6899E-03 1. 7517E-07  
7. 5600E-02 0. 0000E+00 4. 3595E-08 4. 5988E-04 4. 776E-03 6. 6952E-05 5. 428E-03 1. 7341E-07  
7. 6500E-02 0. 0000E+00 4. 2595E-08 4. 5137E-04 4. 5414E-03 6. 2540E-05 5. 2124E-03 1. 7151E-07  
7. 7400E-02 0. 0000E+00 4. 1642E-08 4. 4308E-04 4. 3205E-03 9. 1145E-05 4. 9071E-03 1. 6950E-07  
7. 8300E-02 0. 0000E+00 4. 0710E-08 4. 3485E-04 4. 1137E-03 9. 8926E-05 4. 7861E-03 1. 6730E-07  
7. 9200E-02 0. 0000E+00 3. 9799E-08 4. 2667E-04 3. 9201E-03 9. 8926E-05 4. 684E-03 1. 6502E-07  
8. 0100E-02 0. 0000E+00 3. 8908E-08 4. 1855E-04 3. 7388E-03 1. 0599E-04 4. 529E-03 1. 6267E-07  
8. 1000E-02 0. 0000E+00 3. 8037E-08 4. 1049E-04 3. 5688E-03 1. 0927E-04 4. 387E-03 1. 6019E-07  
8. 1900E-02 0. 0000E+00 3. 7186E-08 4. 0252E-04 3. 4094E-03 1. 1241E-04 4. 267E-03 1. 5766E-07  
8. 2800E-02 0. 0000E+00 3. 6354E-08 3. 9463E-04 3. 2598E-03 1. 1541E-04 3. 9715E-03 1. 5510E-07  
8. 3700E-02 0. 0000E+00 3. 5541E-08 3. 8683E-04 3. 1184E-03 1. 828E-04 3. 8369E-03 1. 5246E-07  
8. 4600E-02 0. 0000E+00 3. 4745E-08 3. 7912E-04 2. 9874E-03 1. 828E-04 3. 7108E-03 1. 4980E-07  
8. 5500E-02 0. 0000E+00 3. 3968E-08 3. 7151E-04 2. 8631E-03 1. 2103E-04 3. 5926E-03 1. 4713E-07  
8. 6400E-02 0. 0000E+00 3. 3208E-08 3. 6400E-04 2. 7465E-03 1. 2861E-04 3. 4816E-03 1. 4442E-07  
8. 7300E-02 0. 0000E+00 3. 2466E-08 3. 5660E-04 2. 6365E-03 1. 2861E-04 3. 3774E-03 1. 4170E-07  
8. 8200E-02 0. 0000E+00 3. 1740E-08 3. 4930E-04 2. 5328E-03 1. 3093E-04 3. 2795E-03 1. 3900E-07  
8. 9100E-02 0. 0000E+00 3. 1030E-08 3. 4212E-04 2. 4350E-03 1. 3317E-04 3. 1875E-03 1. 3628E-07  
9. 0000E-02 0. 0000E+00 3. 0336E-08 3. 3505E-04 2. 3426E-03 1. 3532E-04 3. 1008E-03 1. 3357E-07  
2. 9422E-03 1. 2821E-07

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
1.0000E-05	7.4254E-05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	0.0000E-04	0.0000E+00	1.6940E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.8280E+02	0.0000E+00	3.3566E+03	2.7800E+01	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	1.7500E+01					
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.8000E-04	-1.4069E-11	-9.2847E-07	-8.1688E-04	-1.7735E+00	0.0000E+00	0.0000E+00	3.4720E+03
3.7000E-03	-3.1056E-11	-9.3410E-07	-1.6674E-03	-1.8921E+00	0.0000E+00	0.0000E+00	3.3862E+03
3.6000E-03	-4.1339E-11	-9.2648E-07	-2.5035E-03	-1.9850E+00	-3.2316E+02	-3.2316E+02	3.2484E+03
4.5000E-03	-6.1396E-11	-6.7830E-07	-3.1854E-03	-1.6289E+00	-3.2316E+02	-3.2316E+02	2.2040E+03
5.4000E-03	-7.1206E-11	-4.3140E-07	-3.6405E-03	-1.2399E+00	-3.2316E+02	-3.2316E+02	1.1854E+03
6.3000E-03	-7.6686E-11	-1.9069E-07	-3.8442E-03	-6.3303E-01	-1.3562E+02	-1.3562E+02	2.2338E+02
7.2000E-03	-7.9476E-11	-6.8117E-08	-3.8866E-03	-8.5406E-01	-1.3562E+02	-1.3562E+02	1.6675E+02
8.1000E-03	-7.9760E-11	-1.513E-08	-3.8320E-03	-4.6144E-01	-1.3562E+02	-1.3562E+02	5.8675E+02
9.0000E-03	-7.5568E-11	-1.4868E-07	-3.6821E-03	-2.6252E-01	-1.3562E+02	-1.3562E+02	-9.6128E+02
1.0800E-02	-7.2160E-11	-1.7933E-07	-3.2445E-03	-9.1300E-02	-4.2738E+01	-4.2738E+01	1.0650E+03
1.1700E-02	-6.8043E-11	2.1041E-07	-3.2445E-03	-2.7021E-03	-4.2738E+01	-4.2738E+01	1.1662E+03
1.2600E-02	-6.3540E-11	2.1059E-07	-2.7234E-03	3.1351E-02	-4.3990E-01	-4.3990E-01	1.2578E+03
1.3500E-02	-5.8918E-11	2.1115E-07	-2.4646E-03	6.5350E-02	-4.3990E-01	-4.3990E-01	1.281E+03
1.4400E-02	-5.4189E-11	2.1133E-07	-2.2110E-03	9.6011E-02	1.5958E+01	1.5958E+01	1.1990E+03
1.5300E-02	-4.9493E-11	1.9983E-07	-1.9689E-03	1.0785E-01	1.5958E+01	1.5958E+01	1.1680E+03
1.6200E-02	-4.4842E-11	1.8818E-07	-1.7432E-03	1.1601E-01	1.5958E+01	1.5958E+01	1.0915E+03
1.7100E-02	-4.0550E-11	1.7669E-07	-1.5332E-03	1.2218E-01	1.9891E+01	1.9891E+01	1.0169E+03
1.8000E-02	-3.6361E-11	1.6245E-07	-1.3400E-03	1.2218E-01	1.9891E+01	1.9891E+01	-9.4354E+02
1.8900E-02	-3.2409E-11	1.4832E-07	-1.1645E-03	1.1816E-01	1.9891E+01	1.9891E+01	-6.6088E+02
1.9800E-02	-2.8706E-11	1.3433E-07	-1.0061E-03	1.1331E-01	1.8431E+01	1.8431E+01	-7.8027E+02
2.0700E-02	-2.5250E-11	1.2147E-07	-8.6388E-04	1.0833E-01	1.8431E+01	1.8431E+01	-6.2955E+02
2.1600E-02	-2.2042E-11	1.0863E-07	-7.3688E-04	1.0335E-01	1.8431E+01	1.8431E+01	-5.5901E+02
2.2500E-02	-1.9089E-11	9.5949E-08	-6.2469E-04	9.8285E-02	1.5116E+01	1.5116E+01	-4.9076E+02
2.3400E-02	-1.6372E-11	8.5715E-08	-5.2570E-04	8.7076E-02	1.5116E+01	1.5116E+01	-4.3354E+02
2.4300E-02	-1.3976E-11	7.5329E-08	-4.3853E-04	7.9758E-02	1.5116E+01	1.5116E+01	-3.7772E+02
2.5200E-02	-9.5381E-12	6.5329E-08	-3.5553E-04	7.1180E-02	1.5888E+01	1.5888E+01	-3.2388E+02
2.6100E-02	-7.6545E-12	5.0168E-08	-2.8292E-04	6.5970E-02	1.5888E+01	1.5888E+01	-2.8131E+02
2.7000E-02	-5.9564E-12	4.2645E-08	-2.4009E-04	5.9585E-02	1.5888E+01	1.5888E+01	-2.3978E+02
2.8000E-02	-4.4725E-12	3.7348E-08	-1.9998E-04	5.2270E-02	8.5096E+00	8.5096E+00	-1.9940E+02
2.9000E-02	-3.0348E-12	3.1944E-08	-1.1393E-04	4.2997E-02	8.5096E+00	8.5096E+00	-1.6948E+02
3.0000E-02	-1.7365E-12	2.6685E-08	-8.3999E-05	3.7267E-02	8.5096E+00	8.5096E+00	-1.3990E+02
3.1000E-02	-6.063E-13	2.3128E-08	-5.8843E-05	3.4076E-02	6.0671E+00	6.0671E+00	-1.0609E+01
3.2000E-02	5.1913E-13	1.9508E-08	-2.0261E-05	2.6018E-02	6.0671E+00	6.0671E+00	-9.0609E+01
3.3000E-02	1.2066E-12	1.3806E-08	-6.0265E-06	2.0953E-02	4.2357E+00	4.2357E+00	-7.0269E+01
3.4000E-02	1.9959E-12	1.3806E-08	-6.0265E-06	2.0953E-02	4.2357E+00	4.2357E+00	-5.0739E+01
3.5000E-02	3.1179E-12	8.8913E-09	1.4954E-05	1.7893E-02	2.9130E+00	2.9130E+00	-2.3301E+01
3.6000E-02	3.8528E-12	7.4608E-09	2.2246E-05	1.6251E-02	2.9130E+00	2.9130E+00	-1.0309E+01
3.7000E-02	4.3433E-12	5.9790E-09	3.2242E-05	1.4322E-02	2.9130E+00	2.9130E+00	7.3609E+00
3.8000E-02	4.7607E-12	4.4875E-09	4.5302E-05	1.2180E-02	1.9829E+00	1.9829E+00	1.5714E+01
3.9000E-02	5.1232E-12	3.6381E-09	5.7478E-05	1.0438E-02	1.9829E+00	1.9829E+00	2.1242E+01
4.0000E-02	5.4379E-12	2.7440E-09	6.8747E-05	9.7130E-03	1.9829E+00	1.9829E+00	2.6633E+01
4.1000E-02	5.7061E-12	1.8346E-09	3.8761E-05	8.2402E-03	1.3415E+00	1.3415E+00	3.1783E+01
4.2000E-02	5.9339E-12	1.3602E-09	3.9361E-05	7.4851E-03	1.3415E+00	1.3415E+00	3.5000E+01
4.3000E-02	6.1264E-12	8.4781E-10	3.9497E-05	6.5611E-03	1.3415E+00	1.3415E+00	3.8138E+01
4.4000E-02	6.2849E-12	3.1798E-10	3.9135E-05	5.5623E-03	9.0555E-01	9.0555E-01	4.1125E+01



ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	5.0000E+00	7.4400E+01	1.0000E+00	0.0000E+00	0.0000E+02
1.0000E-05	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	3.1000E+02
1.8300E-05	6.9000E-04	0.0000E+00	0.0000E+00	0.0000E+00	1.6940E+03	1.0000E+00	1.0000E+00	1.0000E+00	1.7140E+00
1.8280E-02	0.0000E+00	3.3566E+03	2.7800E+01	1.7760E-02	2.5600E+01	7.4400E+01	7.4400E+01	7.4400E+01	1.8500E-06
7.4000E+00	2.4000E+00	1.7600E+01	1.7600E+01	1.7600E-02	2.5500E-10	8.3283E-09	8.3283E-09	8.3283E-09	
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
9.0000E-04	6.1663E+01	5.3038E-02	4.1916E-11	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.8000E-04	6.0140E+01	1.0784E-01	1.7636E-10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.7000E-03	5.7692E+01	1.6125E-01	3.9774E-10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.6000E-03	3.9143E+01	2.0478E-01	7.0114E-10	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
4.5000E-03	2.1052E+01	2.3185E-01	1.0810E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
5.4000E-03	3.9671E+01	2.4285E-01	1.4500E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
6.3000E-03	-3.3167E+00	2.4313E-01	1.8445E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
7.2000E-03	-1.0421E+01	2.3683E-01	2.2315E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
8.1000E-03	-1.0721E+01	2.3683E-01	2.6003E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
9.0000E-03	-1.8915E+01	2.0824E-01	2.9423E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.0800E-02	-2.0712E+01	1.9040E-01	3.2537E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.1700E-02	-2.2339E+01	1.7098E-01	3.5321E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.2600E-02	-2.1295E+01	1.5111E-01	3.7759E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.3500E-02	-2.0743E+01	1.3171E-01	3.9854E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.4400E-02	-1.9385E+01	1.1278E-01	4.1617E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.5300E-02	-1.8061E+01	9.4724E-02	4.3061E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.6200E-02	-1.6757E+01	7.7876E-02	4.4206E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.7100E-02	-1.5289E+01	6.2206E-02	4.5075E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.8000E-02	-1.3858E+01	4.7787E-02	4.5684E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.8900E-02	-1.2466E+01	3.4674E-02	4.6063E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
1.9800E-02	-1.1181E+01	2.2632E-02	4.6233E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.0700E-02	-9.9280E+00	1.2194E-02	4.6215E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.1600E-02	-8.7159E+00	-5.6858E-03	4.6030E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.2500E-02	-7.6996E+00	-1.3071E-02	4.5688E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.3400E-02	-6.7084E+00	-1.9553E-02	4.5238E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.4300E-02	-5.7527E+00	-2.5154E-02	4.4665E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.5200E-02	-4.9960E+00	-2.9989E-02	4.3997E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.6100E-02	-4.2535E+00	-3.4152E-02	4.3246E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.7000E-02	-3.5485E+00	-3.7861E-02	4.2426E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.8000E-02	-2.8846E+00	-4.0611E-02	4.1548E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
2.9700E-02	-2.2480E+00	-4.3082E-02	4.0822E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.0600E-02	-1.9796E+00	-4.5087E-02	3.9857E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.1500E-02	-1.2480E+00	-4.6702E-02	3.7843E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.2400E-02	-9.0117E-01	-4.7987E-02	3.6607E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.3300E-02	-6.5442E-01	-4.8951E-02	3.5558E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.4200E-02	-4.1382E-01	-5.0131E-02	3.4505E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.5100E-02	-1.8310E-01	-5.0397E-02	3.3477E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.6000E-02	-2.4220E-02	-5.0490E-02	3.2591E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.6900E-02	1.3073E-01	-5.0427E-02	3.1339E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.7800E-02	2.7908E-01	-5.0256E-02	3.0293E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.8700E-02	3.7725E-01	-4.8256E-02	2.9268E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
3.9600E-02	4.7300E-01	-4.8961E-02	2.8230E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
4.0500E-02	5.647E-01	-4.8578E-02	2.7217E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
4.1400E-02	6.547E-01	-4.8110E-02	2.6217E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
4.2300E-02	7.4160E-01	-4.8576E-02	2.5233E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
4.3200E-02	8.2732E-01	-4.7992E-02	2.4284E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	
4.4100E-02	9.13037E-01	-4.7358E-02	2.3312E-09	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	

4.4100E-02	7.6031E-01	-4.5687E-02	2.2376E-09	0.0000E+00
4.5000E-02	7.6950E-01	-4.5988E-02	2.1459E-09	0.0000E+00
4.5900E-02	8.1710E-01	-4.5266E-02	2.0559E-09	0.0000E+00
4.6800E-02	8.2935E-01	-4.4525E-02	1.9678E-09	0.0000E+00
4.7700E-02	8.4131E-01	-4.3773E-02	1.8814E-09	0.0000E+00
4.8600E-02	8.5236E-01	-4.3011E-02	1.7969E-09	0.0000E+00
4.9500E-02	8.6336E-01	-4.2243E-02	1.7143E-09	0.0000E+00
5.0400E-02	8.7436E-01	-4.1475E-02	1.6334E-09	0.0000E+00
5.1300E-02	8.8536E-01	-4.0706E-02	1.5544E-09	0.0000E+00
5.2200E-02	8.9636E-01	-3.9939E-02	1.4772E-09	0.0000E+00
5.3100E-02	9.0736E-01	-3.9177E-02	1.4017E-09	0.0000E+00
5.4000E-02	9.1836E-01	-3.8421E-02	1.3280E-09	0.0000E+00
5.4900E-02	9.2936E-01	-3.7672E-02	1.2561E-09	0.0000E+00
5.5800E-02	9.4036E-01	-3.6932E-02	1.1859E-09	0.0000E+00
5.6700E-02	9.5136E-01	-3.6201E-02	1.1173E-09	0.0000E+00
5.7600E-02	9.6236E-01	-3.5480E-02	1.0504E-09	0.0000E+00
5.8500E-02	9.7336E-01	-3.4770E-02	9.8515E-10	0.0000E+00
5.9400E-02	9.8436E-01	-3.4071E-02	9.2150E-10	0.0000E+00
6.0300E-02	9.9536E-01	-3.3383E-02	8.5941E-10	0.0000E+00
6.1200E-02	1.0046E-01	-3.2708E-02	7.9887E-10	0.0000E+00
6.2100E-02	1.1106E-01	-3.2044E-02	7.3985E-10	0.0000E+00
6.3000E-02	1.2166E-01	-3.1392E-02	6.8230E-10	0.0000E+00
6.3900E-02	1.3226E-01	-3.0753E-02	6.2621E-10	0.0000E+00
6.4800E-02	1.4286E-01	-3.0126E-02	5.7154E-10	0.0000E+00
6.5700E-02	1.5346E-01	-2.9511E-02	5.1827E-10	0.0000E+00
6.6600E-02	1.6406E-01	-2.8909E-02	4.6636E-10	0.0000E+00
6.7500E-02	1.7466E-01	-2.8318E-02	4.1578E-10	0.0000E+00
6.8400E-02	1.8526E-01	-2.7740E-02	3.6651E-10	0.0000E+00
6.9300E-02	1.9586E-01	-2.7174E-02	3.1852E-10	0.0000E+00
7.0200E-02	2.0646E-01	-2.6619E-02	2.7177E-10	0.0000E+00
7.1100E-02	2.1706E-01	-2.6076E-02	2.2625E-10	0.0000E+00
7.2000E-02	2.2766E-01	-2.5545E-02	1.8192E-10	0.0000E+00
7.2900E-02	2.3826E-01	-2.5025E-02	1.3875E-10	0.0000E+00
7.3800E-02	2.4886E-01	-2.4516E-02	9.6727E-11	0.0000E+00
7.4700E-02	2.5946E-01	-2.4018E-02	5.5817E-11	0.0000E+00
7.5600E-02	2.7006E-01	-2.3530E-02	1.5996E-11	0.0000E+00
7.6500E-02	2.8066E-01	-2.3054E-02	-2.2781E-11	0.0000E+00
7.7400E-02	2.9126E-01	-2.2588E-02	-6.0478E-11	0.0000E+00
7.8300E-02	3.0186E-01	-2.2131E-02	-9.7160E-11	0.0000E+00
7.9200E-02	3.1246E-01	-2.1685E-02	-1.3280E-10	0.0000E+00
8.0100E-02	3.2306E-01	-2.1249E-02	-1.6735E-10	0.0000E+00
8.1000E-02	3.3366E-01	-2.0822E-02	-2.0142E-10	0.0000E+00
8.1900E-02	3.4426E-01	-2.0405E-02	-2.3429E-10	0.0000E+00
8.2800E-02	3.5486E-01	-1.9995E-02	-2.6626E-10	0.0000E+00
8.3700E-02	3.6546E-01	-1.9595E-02	-2.9734E-10	0.0000E+00
8.4600E-02	3.7606E-01	-1.9206E-02	-3.2756E-10	0.0000E+00
8.5500E-02	3.8666E-01	-1.8824E-02	-3.5694E-10	0.0000E+00
8.6400E-02	3.9726E-01	-1.8451E-02	-3.8550E-10	0.0000E+00
8.7300E-02	4.0786E-01	-1.8085E-02	-4.1325E-10	0.0000E+00
8.8200E-02	4.1846E-01	-1.7728E-02	-4.4022E-10	0.0000E+00
8.9100E-02	4.2906E-01	-1.7378E-02	-4.6643E-10	0.0000E+00
9.0000E-02	4.3966E-01	-1.7036E-02	-4.9188E-10	0.0000E+00





```

C
50   FORMAT('1',5X,'ITERATIVE METHOD. TIME RESPONSE',/)
60   FORMAT(/,70('*'),/)
70   FORMAT(1P8E13.4)
80   FORMAT(5X,'COEFFICIENTS VALUES.',/)
90   FORMAT(5X,'TIME          ',7(12,' VARIABLE  '))
      PRINT *, 'ENTER NUMBER OF VARIABLES.'
      READ *, XI
      PRINT *, 'ENTER NUMBER OF COEFFICIENTS.'
      READ *, KI
      PRINT *, 'ENTER VARIABLES INITIAL VALUES.'
      DO I=1, XI
         READ *, X(I,1)
         X(I,2)=X(I,1)
         X(I,3)=0.0
      END DO
      PRINT *, 'ENTER COEFFICIENTS VALUES.'
      DO I=1, KI
         READ *, K(I)
      END DO
      PRINT *, 'ENTER INCREMENT OF TIME AND FINAL TIME.'
      READ *, DLT, FTIM
      PRINT *, 'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
      READ *, PTC, MXIT
      PRINT *, 'ENTER DISCRETE TIME.'
      READ *, DSTIM

C
      DO I=1, XI
         Z(I)=I
      END DO

C
C*****
C
C   WRITE TITLE AND INITIAL CONDITIONS.
C*****
C
      IF (XI.GT.21) THEN
         WRITE(13,50)
         WRITE(13,60)
         WRITE(13,80)
         WRITE(13,70), (K(I), I=1, KI)
         WRITE(13,60)
         WRITE(13,90), (Z(I), I=22, XI)
         WRITE(13,70), T, (X(I,1), I=22, XI)
         XI1=21
      ELSE
         XI1=XI
      ENDIF
      IF (XI1.GT.14) THEN
         WRITE(12,50)
         WRITE(12,60)
         WRITE(12,80)
         WRITE(12,70), (K(I), I=1, KI)
         WRITE(12,60)
         WRITE(12,90), (Z(I), I=15, XI1)
         WRITE(12,70), T, (X(I,1), I=15, XI1)
         XI2=14
      ELSE
         XI2=XI

```



```

CALL INTI (XX,XY,KX,KY)
X(9,2)=X(7,2)*K(10)+X(8,2)*K(12)-X(14,2)*K(22)
XX=9
XY=10
KX=13
KY=14
CALL INTI (XX,XY,KX,KY)
X(11,2)=(X(9,2)*K(13)+X(10,2)*K(15))*K(16)
IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
  X(12,2)=X(11,2)*K(17)
ENDIF
X(13,2)=X(12,2)-X(25,2)
XX=13
XY=14
KX=19
KY=20
CALL INTI (XX,XY,KX,KY)
X(15,2)=X(14,2)*K(21)*X(24,2)/K(8)-X(26,2)*K(21)
XX=15
XY=16
KX=5
KY=6
CALL INTI (XX,XY,KX,KY)
XX=16
XY=17
KX=24
KY=25
CALL INTI (XX,XY,KX,KY)
X(19,2)=X(18,2)*K(27)+X(14,2)*K(18)-X(12,2)*K(38)
XX=19
XY=20
KX=5
KY=6
CALL INTI (XX,XY,KX,KY)
X(21,2)=(X(19,2)+X(20,2)*K(28))*K(29)*K(42)/X(16,2)-
1      X(24,2)*K(37)
XX=21
XY=22
KX=30
KY=31
CALL INTI (XX,XY,KX,KY)
IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
  DISCF=1
  X(23,2)=X(22,2)*K(32)
ENDIF
XX=23
XY=24
KX=34
KY=35
CALL INTI (XX,XY,KX,KY)
X(25,2)=X(24,2)*X(16,2)*K(36)
XX=13
XY=27
KX=33
KY=39
CALL INTI (XX,XY,KX,KY)
X(28,2)=X(13,2)*K(33)+X(27,2)*K(40)+X(25,2)
COUNT=COUNT+1.0
ENDDO
IF (C.GT.COU) THEN

```

```
      COU = C
    ENDIF
    IF (C.GT.MXIT) THEN
      PRINT *,C,'ITERATIVE LOOPS AT:',T,'SEC.'
    END IF
    IF (DTM.GE.DSTIM) THEN
      DTM=0
    ENDIF
    PTC=PTC+1
    T=T+DLT
    DTM=DTM+1
    IF (PTC.EQ.PTCD) THEN
      PTC=0
      IF(XI.GT.21) THEN
        WRITE(13,70),T,(X(I,2),I=22,XI)
      END IF
      IF(XI1.GT.14) THEN
        WRITE(12,70),T,(X(I,2),I=15,XI1)
      END IF
      IF(XI2.GT.7) THEN
        WRITE(11,70),T,(X(I,2),I=8,XI2)
      END IF
      WRITE(10,70),T,(X(I,2),I=1,XI3)
    END IF
    DO I=1,XI
      X(I,1)=X(I,2)
    END DO
  ENDDO
PRINT *, '# OF SWEEPS:',COUNT
PRINT *, '# OF MAX ITERATIONS:',COU
END
```



4.5000E-01	5.0500E+00	-1.3028E-06	-1.0395E-02	-3.3852E-01	4.8501E-01	2.0866E+00	-1.2666E-06
4.6000E-01	5.0500E+00	-1.3256E-06	-1.0636E-02	-3.4079E-01	4.8162E-01	2.0673E+00	-1.2084E-06
4.7000E-01	5.0500E+00	-1.3430E-06	-1.0830E-02	-3.4199E-01	4.7820E-01	2.0490E+00	-1.1498E-06
4.8000E-01	5.0500E+00	-1.3554E-06	-1.1079E-02	-3.4219E-01	4.7478E-01	2.0317E+00	-1.0965E-06
4.9000E-01	5.0500E+00	-1.3637E-06	-1.1087E-02	-3.4147E-01	4.7136E-01	2.0153E+00	-1.0451E-06
5.0000E-01	5.0500E+00	-1.3688E-06	-1.1167E-02	-3.3991E-01	4.6795E-01	1.9999E+00	-9.9338E-07
5.1000E-01	5.0500E+00	-1.3688E-06	-1.1192E-02	-3.3760E-01	4.6457E-01	1.9852E+00	-9.4378E-07
5.2000E-01	5.0500E+00	-1.3637E-06	-1.1188E-02	-3.3460E-01	4.6120E-01	1.9714E+00	-8.9840E-07
5.3000E-01	5.0500E+00	-1.3557E-06	-1.1168E-02	-3.3097E-01	4.5788E-01	1.9584E+00	-8.5289E-07
5.4000E-01	5.0500E+00	-1.3456E-06	-1.1114E-02	-3.2678E-01	4.5459E-01	1.9462E+00	-8.0754E-07
5.5000E-01	5.0500E+00	-1.3329E-06	-1.1036E-02	-3.2209E-01	4.5134E-01	1.9346E+00	-7.6334E-07
5.6000E-01	5.0500E+00	-1.3178E-06	-1.0935E-02	-3.1695E-01	4.4815E-01	1.9238E+00	-7.2743E-07
5.7000E-01	5.0500E+00	-1.3005E-06	-1.0814E-02	-3.1141E-01	4.4500E-01	1.9136E+00	-6.8775E-07
5.8000E-01	5.0500E+00	-1.2813E-06	-1.0676E-02	-3.0533E-01	4.4192E-01	1.9041E+00	-6.5090E-07
5.9000E-01	5.0500E+00	-1.2603E-06	-1.0520E-02	-2.9935E-01	4.3890E-01	1.8951E+00	-6.1610E-07
6.0000E-01	5.0500E+00	-1.2378E-06	-1.0351E-02	-2.9282E-01	4.3593E-01	1.8868E+00	-5.8355E-07
6.1000E-01	5.0500E+00	-1.2140E-06	-1.0168E-02	-2.8624E-01	4.3304E-01	1.8790E+00	-5.5312E-07
6.2000E-01	5.0500E+00	-1.1890E-06	-9.9750E-03	-2.7939E-01	4.3021E-01	1.8717E+00	-5.2481E-07
6.3000E-01	5.0500E+00	-1.1630E-06	-9.7718E-03	-2.7239E-01	4.2745E-01	1.8649E+00	-4.9867E-07
6.4000E-01	5.0500E+00	-1.1362E-06	-9.5602E-03	-2.6528E-01	4.2476E-01	1.8585E+00	-4.7461E-07
6.5000E-01	5.0500E+00	-1.1087E-06	-9.3417E-03	-2.5808E-01	4.2215E-01	1.8526E+00	-4.5260E-07
6.6000E-01	5.0500E+00	-1.0806E-06	-9.1172E-03	-2.5088E-01	4.1960E-01	1.8472E+00	-4.3208E-07
6.7000E-01	5.0500E+00	-1.0521E-06	-8.8860E-03	-2.4352E-01	4.1713E-01	1.8421E+00	-4.1311E-07
6.8000E-01	5.0500E+00	-1.0233E-06	-8.6511E-03	-2.3621E-01	4.1473E-01	1.8374E+00	-3.9548E-07
6.9000E-01	5.0500E+00	-9.9426E-07	-8.4184E-03	-2.2890E-01	4.1240E-01	1.8331E+00	-3.7985E-07
7.0000E-01	5.0500E+00	-9.6510E-07	-8.1818E-03	-2.2163E-01	4.1015E-01	1.8291E+00	-3.6559E-07
7.1000E-01	5.0500E+00	-9.3591E-07	-7.9431E-03	-2.1439E-01	4.0797E-01	1.8255E+00	-3.5247E-07
7.2000E-01	5.0500E+00	-9.0672E-07	-7.7040E-03	-2.0722E-01	4.0586E-01	1.8221E+00	-3.4071E-07
7.3000E-01	5.0500E+00	-8.7752E-07	-7.4653E-03	-2.0012E-01	4.0383E-01	1.8190E+00	-3.3013E-07
7.4000E-01	5.0500E+00	-8.4834E-07	-7.2274E-03	-1.9310E-01	4.0186E-01	1.8162E+00	-3.2061E-07
7.5000E-01	5.0500E+00	-8.2036E-07	-6.9911E-03	-1.8619E-01	3.9996E-01	1.8136E+00	-3.1217E-07
7.6000E-01	5.0500E+00	-7.9210E-07	-6.7567E-03	-1.7938E-01	3.9814E-01	1.8113E+00	-3.0477E-07
7.7000E-01	5.0500E+00	-7.6419E-07	-6.5248E-03	-1.7269E-01	3.9638E-01	1.8092E+00	-2.9826E-07
7.8000E-01	5.0500E+00	-7.3669E-07	-6.2958E-03	-1.6612E-01	3.9468E-01	1.8073E+00	-2.9266E-07
7.9000E-01	5.0500E+00	-7.0962E-07	-6.0700E-03	-1.5969E-01	3.9305E-01	1.8056E+00	-2.8791E-07
8.0000E-01	5.0500E+00	-6.8303E-07	-5.8477E-03	-1.5339E-01	3.9149E-01	1.8041E+00	-2.8395E-07
8.1000E-01	5.0500E+00	-6.5695E-07	-5.6293E-03	-1.4724E-01	3.8999E-01	1.8027E+00	-2.8067E-07
8.2000E-01	5.0500E+00	-6.3140E-07	-5.4150E-03	-1.4124E-01	3.8854E-01	1.8015E+00	-2.7804E-07
8.3000E-01	5.0500E+00	-6.0640E-07	-5.2050E-03	-1.3537E-01	3.8716E-01	1.8004E+00	-2.7597E-07
8.4000E-01	5.0500E+00	-5.8197E-07	-4.9995E-03	-1.2967E-01	3.8584E-01	1.7995E+00	-2.7436E-07
8.5000E-01	5.0500E+00	-5.5813E-07	-4.7987E-03	-1.2417E-01	3.8457E-01	1.7987E+00	-2.7310E-07
8.6000E-01	5.0500E+00	-5.3490E-07	-4.6027E-03	-1.1872E-01	3.8335E-01	1.7980E+00	-2.7210E-07
8.7000E-01	5.0500E+00	-5.1227E-07	-4.4115E-03	-1.1348E-01	3.8219E-01	1.7975E+00	-2.7120E-07
8.8000E-01	5.0500E+00	-4.9026E-07	-4.2254E-03	-1.0840E-01	3.8108E-01	1.7970E+00	-2.7038E-07
8.9000E-01	5.0500E+00	-4.6888E-07	-4.0443E-03	-1.0340E-01	3.8002E-01	1.7966E+00	-2.6964E-07
9.0000E-01	5.0500E+00	-4.4812E-07	-3.8684E-03	-9.8710E-02	3.7901E-01	1.7964E+00	-2.6898E-07
9.1000E-01	5.0500E+00	-4.2799E-07	-3.6975E-03	-9.4098E-02	3.7805E-01	1.7964E+00	-2.6840E-07
9.2000E-01	5.0500E+00	-4.0848E-07	-3.5318E-03	-8.9640E-02	3.7713E-01	1.7966E+00	-2.6787E-07
9.3000E-01	5.0500E+00	-3.8960E-07	-3.3712E-03	-8.5335E-02	3.7626E-01	1.7966E+00	-2.6739E-07
9.4000E-01	5.0500E+00	-3.7134E-07	-3.2155E-03	-8.1181E-02	3.7542E-01	1.7966E+00	-2.6695E-07
9.5000E-01	5.0500E+00	-3.5369E-07	-3.0654E-03	-7.7176E-02	3.7463E-01	1.7959E+00	-2.6656E-07
9.6000E-01	5.0500E+00	-3.3665E-07	-2.9200E-03	-7.3317E-02	3.7388E-01	1.7960E+00	-2.6622E-07
9.7000E-01	5.0500E+00	-3.2022E-07	-2.7797E-03	-6.9602E-02	3.7316E-01	1.7961E+00	-2.6592E-07
9.8000E-01	5.0500E+00	-3.0437E-07	-2.6443E-03	-6.6029E-02	3.7249E-01	1.7962E+00	-2.6566E-07
9.9000E-01	5.0500E+00	-2.8911E-07	-2.5137E-03	-6.2594E-02	3.7184E-01	1.7964E+00	-2.6544E-07
1.0000E+00	5.0500E+00	-2.7441E-07	-2.3879E-03	-5.9295E-02	3.7123E-01	1.7966E+00	-2.6526E-07





4. 7000E-01 1.113E-09 6.1100E-07 2.4838E-02 4.2857E+00 6.9444E+02 3.9978E+01 4.9840E+03  
4. 8000E-01 1.1047E-09 6.187E-07 2.4866E-02 4.2736E+00 6.9550E+02 3.9406E+01 4.9367E+03  
5. 0000E-01 1.0984E-09 6.1270E-07 2.4932E-02 4.2810E+00 6.9682E+02 3.9200E+01 4.8916E+03  
5. 0000E-01 1.0924E-09 6.1354E-07 2.4978E-02 4.2881E+00 6.9805E+02 3.8997E+01 4.8485E+03  
5. 2000E-01 1.0867E-09 6.1433E-07 2.5017E-02 4.2947E+00 6.9994E+02 3.8516E+01 4.8076E+03  
5. 3000E-01 1.0812E-09 6.1501E-07 2.5055E-02 4.3009E+00 7.0004E+02 3.8339E+01 4.7669E+03  
5. 4000E-01 1.0761E-09 6.1570E-07 2.5092E-02 4.3068E+00 7.0108E+02 3.8168E+01 4.7320E+03  
5. 5000E-01 1.0712E-09 6.1641E-07 2.5126E-02 4.3124E+00 7.0206E+02 3.8000E+01 4.6968E+03  
5. 6000E-01 1.0665E-09 6.1697E-07 2.5159E-02 4.3176E+00 7.0295E+02 3.7813E+01 4.6638E+03  
5. 7000E-01 1.0621E-09 6.1754E-07 2.5189E-02 4.3225E+00 7.0383E+02 3.7613E+01 4.6324E+03  
5. 8000E-01 1.0580E-09 6.1813E-07 2.5218E-02 4.3272E+00 7.0468E+02 3.7409E+01 4.6024E+03  
5. 9000E-01 1.0540E-09 6.1872E-07 2.5246E-02 4.3317E+00 7.0550E+02 3.7204E+01 4.5742E+03  
6. 0000E-01 1.0503E-09 6.1932E-07 2.5272E-02 4.3356E+00 7.0630E+02 3.7004E+01 4.5476E+03  
6. 1000E-01 1.0467E-09 6.1991E-07 2.5298E-02 4.3392E+00 7.0700E+02 3.6884E+01 4.5224E+03  
6. 2000E-01 1.0434E-09 6.2049E-07 2.5319E-02 4.3425E+00 7.0764E+02 3.6769E+01 4.5046E+03  
6. 3000E-01 1.0402E-09 6.2089E-07 2.5342E-02 4.3472E+00 7.0824E+02 3.6495E+01 4.4964E+03  
6. 4000E-01 1.0373E-09 6.2131E-07 2.5363E-02 4.3506E+00 7.0881E+02 3.6303E+01 4.4860E+03  
6. 5000E-01 1.0345E-09 6.2194E-09 2.5383E-02 4.3538E+00 7.0922E+02 3.6213E+01 4.4748E+03  
6. 6000E-01 1.0319E-09 6.2165E-07 2.5401E-02 4.3570E+00 7.0974E+02 3.5995E+01 4.4548E+03  
6. 7000E-01 1.0294E-09 6.2200E-07 2.5418E-02 4.3599E+00 7.1023E+02 3.5819E+01 4.4159E+03  
6. 8000E-01 1.0271E-09 6.2234E-07 2.5438E-02 4.3627E+00 7.1058E+02 3.5685E+01 4.3892E+03  
6. 9000E-01 1.0249E-09 6.2266E-07 2.5453E-02 4.3653E+00 7.1082E+02 3.5585E+01 4.3615E+03  
7. 0000E-01 1.0228E-09 6.2295E-07 2.5468E-02 4.3678E+00 7.1102E+02 3.5505E+01 4.3512E+03  
7. 1000E-01 1.0209E-09 6.2324E-07 2.5483E-02 4.3702E+00 7.1144E+02 3.5438E+01 4.3374E+03  
7. 2000E-01 1.0191E-09 6.2352E-07 2.5497E-02 4.3725E+00 7.1174E+02 3.5386E+01 4.3244E+03  
7. 3000E-01 1.0175E-09 6.2377E-07 2.5510E-02 4.3746E+00 7.1213E+02 3.5350E+01 4.3124E+03  
7. 4000E-01 1.0159E-09 6.2402E-07 2.5522E-02 4.3766E+00 7.1249E+02 3.5308E+01 4.3010E+03  
7. 5000E-01 1.0144E-09 6.2427E-07 2.5545E-02 4.3786E+00 7.1283E+02 3.5264E+01 4.2904E+03  
7. 6000E-01 1.0131E-09 6.2448E-07 2.5565E-02 4.3804E+00 7.1309E+02 3.5145E+01 4.2806E+03  
7. 7000E-01 1.0118E-09 6.2468E-07 2.5577E-02 4.3822E+00 7.1336E+02 3.5111E+01 4.2714E+03  
7. 8000E-01 1.0106E-09 6.2489E-07 2.5567E-02 4.3839E+00 7.1362E+02 3.5080E+01 4.2628E+03  
7. 9000E-01 1.0095E-09 6.2509E-07 2.5577E-02 4.3855E+00 7.1390E+02 3.4958E+01 4.2548E+03  
8. 0000E-01 1.0085E-09 6.2526E-07 2.5586E-02 4.3870E+00 7.1417E+02 3.4935E+01 4.2474E+03  
8. 1000E-01 1.0076E-09 6.2544E-07 2.5595E-02 4.3884E+00 7.1442E+02 3.4913E+01 4.2405E+03  
8. 2000E-01 1.0067E-09 6.2561E-07 2.5603E-02 4.3898E+00 7.1466E+02 3.4837E+01 4.2341E+03  
8. 3000E-01 1.0059E-09 6.2576E-07 2.5611E-02 4.3911E+00 7.1483E+02 3.4821E+01 4.2282E+03  
8. 4000E-01 1.0052E-09 6.2590E-07 2.5619E-02 4.3923E+00 7.1505E+02 3.4807E+01 4.2236E+03  
8. 5000E-01 1.0045E-09 6.2605E-07 2.5623E-02 4.3935E+00 7.1528E+02 3.4795E+01 4.2177E+03  
8. 6000E-01 1.0038E-09 6.2618E-07 2.5639E-02 4.3946E+00 7.1540E+02 3.4745E+01 4.2131E+03  
8. 7000E-01 1.0032E-09 6.2630E-07 2.5645E-02 4.3956E+00 7.1559E+02 3.4735E+01 4.2088E+03  
8. 8000E-01 1.0028E-09 6.2642E-07 2.5645E-02 4.3966E+00 7.1577E+02 3.4725E+01 4.2049E+03  
8. 9000E-01 1.0019E-09 6.2654E-07 2.5657E-02 4.3976E+00 7.1589E+02 3.4676E+01 4.2013E+03  
9. 0000E-01 1.0015E-09 6.2674E-07 2.5657E-02 4.3985E+00 7.1605E+02 3.4665E+01 4.1981E+03  
9. 1000E-01 1.0011E-09 6.2685E-07 2.5667E-02 4.3993E+00 7.1620E+02 3.4665E+01 4.1951E+03  
9. 2000E-01 1.0008E-09 6.2693E-07 2.5672E-02 4.4002E+00 7.1634E+02 3.4623E+01 4.1923E+03  
9. 3000E-01 1.0005E-09 6.2702E-07 2.5676E-02 4.4009E+00 7.1645E+02 3.4623E+01 4.1899E+03  
9. 4000E-01 1.0003E-09 6.2710E-07 2.5680E-02 4.4016E+00 7.1657E+02 3.4623E+01 4.1877E+03  
9. 5000E-01 1.0001E-09 6.2718E-07 2.5684E-02 4.4030E+00 7.1678E+02 3.4620E+01 4.1857E+03  
9. 6000E-01 1.0001E-09 6.2725E-07 2.5684E-02 4.4036E+00 7.1696E+02 3.4591E+01 4.1839E+03  
9. 7000E-01 9.9985E-10 6.2731E-07 2.5688E-02 4.4041E+00 7.1699E+02 3.4592E+01 4.1823E+03  
9. 8000E-01 9.9968E-10 6.2739E-07 2.5692E-02 4.4041E+00 7.1699E+02 3.4593E+01 4.1809E+03  
9. 9000E-01 9.9940E-10 6.2744E-07 2.5698E-02 4.4052E+00 7.1706E+02 3.4570E+01 4.1796E+03  
1. 0000E+00 9.9926E-10 6.2749E-07 2.5701E-02 4.4052E+00 7.1715E+02 3.4573E+01 4.1785E+03  
1. 0000E+00 9.9926E-10 6.2749E-07 2.5701E-02 4.4052E+00 7.1724E+02 3.4576E+01 4.1776E+03



4.7000E-01	1.0162E+01	3.9602E+01	8.9254E-08	1.0000E+01	1.4093E-08	3.6675E-06	1.0967E-08
4.8000E-01	9.4646E+00	3.9700E+01	8.9858E-08	1.0000E+01	1.3443E-08	3.6713E-06	1.1248E-08
4.9000E-01	8.8035E+00	3.9791E+01	9.0629E-08	1.0000E+01	1.2657E-08	3.6943E-06	1.1328E-08
5.0000E-01	8.1729E+00	3.9878E+01	9.1268E-08	1.0000E+01	1.1919E-08	3.7066E-06	1.1414E-08
5.2000E-01	7.5759E+00	3.9953E+01	9.1876E-08	1.0000E+01	1.1375E-08	3.7182E-06	1.1670E-08
5.3000E-01	7.0152E+00	4.0028E+01	9.2454E-08	1.0000E+01	1.0714E-08	3.7292E-06	1.1752E-08
5.4000E-01	6.4817E+00	4.0095E+01	9.3004E-08	1.0000E+01	1.0093E-08	3.7396E-06	1.1837E-08
5.5000E-01	5.9750E+00	4.0168E+01	9.3525E-08	1.0000E+01	9.5076E-07	3.7495E-06	1.1922E-08
5.6000E-01	5.5025E+00	4.0215E+01	9.4021E-08	1.0000E+01	9.0746E-07	3.7588E-06	1.2155E-08
5.7000E-01	5.0548E+00	4.0268E+01	9.4490E-08	1.0000E+01	8.5491E-07	3.7678E-06	1.2209E-08
5.8000E-01	4.6306E+00	4.0316E+01	9.4936E-08	1.0000E+01	8.0534E-07	3.7759E-06	1.2289E-08
5.9000E-01	4.2333E+00	4.0361E+01	9.5357E-08	1.0000E+01	7.6855E-07	3.7838E-06	1.2484E-08
6.0000E-01	3.8607E+00	4.0401E+01	9.5756E-08	1.0000E+01	7.2391E-07	3.7912E-06	1.2599E-08
6.1000E-01	3.5087E+00	4.0438E+01	9.6134E-08	1.0000E+01	6.8173E-07	3.7983E-06	1.2518E-08
6.2000E-01	3.1776E+00	4.0471E+01	9.6491E-08	1.0000E+01	6.5038E-07	3.8049E-06	1.2574E-08
6.3000E-01	2.8704E+00	4.0501E+01	9.6828E-08	1.0000E+01	6.1122E-07	3.8112E-06	1.2720E-08
6.4000E-01	2.5810E+00	4.0529E+01	9.7146E-08	1.0000E+01	5.7636E-07	3.8175E-06	1.2801E-08
6.5000E-01	2.3087E+00	4.0553E+01	9.7446E-08	1.0000E+01	5.4233E-07	3.8228E-06	1.2835E-08
6.6000E-01	2.0570E+00	4.0575E+01	9.7729E-08	1.0000E+01	5.1708E-07	3.8281E-06	1.2941E-08
6.7000E-01	1.8216E+00	4.0594E+01	9.7995E-08	1.0000E+01	4.8633E-07	3.8331E-06	1.2941E-08
6.8000E-01	1.6008E+00	4.0611E+01	9.8246E-08	1.0000E+01	4.6333E-07	3.8378E-06	1.2982E-08
6.9000E-01	1.3980E+00	4.0625E+01	9.8481E-08	1.0000E+01	4.5723E-07	3.8422E-06	1.3061E-08
7.0000E-01	1.2068E+00	4.0639E+01	9.8703E-08	1.0000E+01	4.0931E-07	3.8465E-06	1.3068E-08
7.1000E-01	8.6525E-01	4.0651E+01	9.8910E-08	1.0000E+01	3.8441E-07	3.8504E-06	1.3127E-08
7.2000E-01	7.1528E-01	4.0660E+01	9.9105E-08	1.0000E+01	3.6593E-07	3.8542E-06	1.3127E-08
7.3000E-01	5.7575E-01	4.0674E+01	9.9287E-08	1.0000E+01	3.4541E-07	3.8577E-06	1.3112E-08
7.4000E-01	4.4614E-01	4.0678E+01	9.9458E-08	1.0000E+01	3.2209E-07	3.8610E-06	1.3121E-08
7.5000E-01	3.2818E-01	4.0683E+01	9.9617E-08	1.0000E+01	3.0193E-07	3.8642E-06	1.3100E-08
7.6000E-01	2.1985E-01	4.0686E+01	9.9766E-08	1.0000E+01	2.8702E-07	3.8671E-06	1.3131E-08
7.7000E-01	1.1988E-01	4.0688E+01	9.9905E-08	1.0000E+01	2.8079E-07	3.8699E-06	1.3111E-08
7.8000E-01	2.8699E-02	4.0689E+01	1.0003E-08	1.0000E+01	2.5155E-07	3.8725E-06	1.3089E-06
7.9000E-01	1.1988E-01	4.0689E+01	1.0015E-05	1.0000E+01	2.3883E-07	3.8749E-06	1.3104E-06
8.0000E-01	-5.3434E-02	4.0688E+01	1.0027E-05	1.0000E+01	2.2266E-07	3.8772E-06	1.3076E-06
8.1000E-01	-1.2877E-01	4.0687E+01	1.0037E-05	1.0000E+01	2.0854E-07	3.8794E-06	1.3047E-06
8.2000E-01	-2.5840E-01	4.0684E+01	1.0047E-05	1.0000E+01	1.9463E-07	3.8814E-06	1.3016E-06
8.3000E-01	-3.1344E-01	4.0681E+01	1.0055E-05	1.0000E+01	1.8443E-07	3.8833E-06	1.3015E-06
8.4000E-01	-3.6326E-01	4.0677E+01	1.0071E-05	1.0000E+01	1.7189E-07	3.8851E-06	1.2979E-06
8.5000E-01	-4.0709E-01	4.0673E+01	1.0078E-05	1.0000E+01	1.6006E-07	3.8868E-06	1.2943E-06
8.6000E-01	-4.4558E-01	4.0669E+01	1.0085E-05	1.0000E+01	1.5139E-07	3.8886E-06	1.2893E-06
8.7000E-01	-4.7988E-01	4.0665E+01	1.0090E-05	1.0000E+01	1.4075E-07	3.8898E-06	1.2852E-06
8.8000E-01	-5.0994E-01	4.0660E+01	1.0096E-05	1.0000E+01	1.3071E-07	3.8911E-06	1.2835E-06
8.9000E-01	-5.3507E-01	4.0654E+01	1.0096E-05	1.0000E+01	1.2337E-07	3.8924E-06	1.2835E-06
9.0000E-01	-5.5590E-01	4.0649E+01	1.0101E-05	1.0000E+01	1.1436E-07	3.8936E-06	1.2792E-06
9.1000E-01	-5.7563E-01	4.0643E+01	1.0105E-05	1.0000E+01	1.0587E-07	3.8947E-06	1.2750E-06
9.2000E-01	-6.0231E-01	4.0637E+01	1.0113E-05	1.0000E+01	9.7881E-08	3.8957E-06	1.2707E-06
9.3000E-01	-6.1184E-01	4.0631E+01	1.0116E-05	1.0000E+01	9.2085E-08	3.8967E-06	1.2684E-06
9.4000E-01	-6.1866E-01	4.0625E+01	1.0119E-05	1.0000E+01	8.6377E-08	3.8975E-06	1.2640E-06
9.5000E-01	-6.2286E-01	4.0619E+01	1.0122E-05	1.0000E+01	7.8219E-08	3.8984E-06	1.2597E-06
9.6000E-01	-6.2525E-01	4.0613E+01	1.0124E-05	1.0000E+01	7.3363E-08	3.8991E-06	1.2570E-06
9.7000E-01	-6.2590E-01	4.0607E+01	1.0126E-05	1.0000E+01	6.7371E-08	3.8998E-06	1.2526E-06
9.8000E-01	-6.2590E-01	4.0600E+01	1.0128E-05	1.0000E+01	6.1750E-08	3.9005E-06	1.2483E-06
9.9000E-01	-6.2418E-01	4.0594E+01	1.0129E-05	1.0000E+01	5.7702E-08	3.9011E-06	1.2454E-06
1.0000E+00	-6.2114E-01	4.0588E+01	1.0131E-05	1.0000E+01	5.2705E-08	3.9016E-06	1.2412E-06
						3.9021E-06	1.2370E-06

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

1.0000E-05	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	0.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+06	1.0490E+06	2.5600E+01	5.0000E+00	3.1000E+02
1.6280E-02	2.1589E-10	3.3568E+03	2.7800E+03	2.7800E+03	2.7800E+03	7.5500E-10	7.4400E+01	1.7140E+00
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	5.5611E-01	1.7000E+08	8.2600E+01	1.8500E-06
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	3.2250E-07	5.2090E-08	1.2215E+01	5.6000E+01
0.0000E+00	8.0000E+01							7.2259E+00
0.0000E+00								
0.0000E+00								
1.0000E-02	-7.1097E+02	-3.4089E+03	3.7232E+02	3.7232E+02	3.7232E+02	1.4463E-01	4.9015E+02	0.0000E+00
3.0000E-02	-8.3067E+01	-5.2603E+03	3.4321E+02	3.4321E+02	3.4321E+02	1.0353E+00	4.2388E+02	4.9015E+02
4.0000E-02	-6.2848E+01	-2.8970E+03	2.2551E+02	2.2551E+02	2.2551E+02	3.5600E+03	1.4840E+00	3.7845E+02
5.0000E-02	-3.4596E+01	-2.1420E+03	2.1112E+02	2.1112E+02	2.1112E+02	3.5600E+03	1.7706E+00	3.6119E+02
6.0000E-02	-1.1906E+01	-7.3328E+02	2.0373E+02	2.0373E+02	2.0373E+02	3.5600E+03	2.0178E+00	3.5422E+02
7.0000E-02	4.8702E+00	6.7871E+01	2.0183E+02	2.0183E+02	2.0183E+02	3.5600E+03	2.2462E+00	3.5623E+02
8.0000E-02	1.6297E+01	8.2319E+02	2.0390E+02	2.0390E+02	2.0390E+02	3.5600E+03	2.4475E+00	3.6366E+02
9.0000E-02	2.3173E+01	1.2730E+03	2.0853E+02	2.0853E+02	2.0853E+02	3.5600E+03	2.6105E+00	3.7639E+02
1.0000E-01	2.6405E+01	1.4779E+03	2.1461E+02	2.1461E+02	2.1461E+02	3.5600E+03	2.7285E+00	3.9292E+02
1.2000E-01	2.6824E+01	1.5083E+03	2.2124E+02	2.2124E+02	2.2124E+02	3.5600E+03	2.8018E+00	4.1225E+02
1.3000E-01	2.5315E+01	1.4337E+03	2.2776E+02	2.2776E+02	2.2776E+02	3.5600E+03	2.8407E+00	4.3140E+02
1.4000E-01	2.2658E+01	1.2765E+03	2.3374E+02	2.3374E+02	2.3374E+02	3.5600E+03	2.8407E+00	4.5297E+02
1.5000E-01	1.9646E+01	1.1327E+03	2.3894E+02	2.3894E+02	2.3894E+02	3.5600E+03	2.8210E+00	4.7421E+02
1.6000E-01	1.6194E+01	9.3468E+02	2.4324E+02	2.4324E+02	2.4324E+02	3.5600E+03	2.7854E+00	4.9231E+02
1.8000E-01	1.3185E+01	7.5019E+02	2.4870E+02	2.4870E+02	2.4870E+02	3.5600E+03	2.6878E+00	5.1090E+02
1.7000E-01	1.0592E+01	6.4627E+02	2.5140E+02	2.5140E+02	2.5140E+02	3.5600E+03	2.5770E+00	5.4097E+02
1.8000E-01	8.4627E+00	5.8978E+02	2.5290E+02	2.5290E+02	2.5290E+02	3.5600E+03	2.5214E+00	5.5421E+02
1.9000E-01	6.8041E+00	5.3978E+02	2.5400E+02	2.5400E+02	2.5400E+02	3.5600E+03	2.4183E+00	5.6587E+02
2.0000E-01	5.5657E+00	4.8586E+02	2.5480E+02	2.5480E+02	2.5480E+02	3.5600E+03	2.3635E+00	5.8439E+02
2.1000E-01	4.6586E+00	4.0171E+00	2.5538E+02	2.5538E+02	2.5538E+02	3.5600E+03	2.3145E+00	6.0032E+02
2.2000E-01	4.0171E+00	3.5777E+00	2.0182E+02	2.0182E+02	2.0182E+02	3.5600E+03	2.2724E+00	6.0654E+02
2.3000E-01	3.2762E+00	3.2762E+00	1.8709E+02	1.8709E+02	1.8709E+02	3.5600E+03	2.2674E+00	6.1303E+02
2.4000E-01	3.0612E+00	3.0612E+00	1.7335E+02	1.7335E+02	1.7335E+02	3.5600E+03	2.2224E+00	6.1906E+02
2.5000E-01	2.9097E+00	2.9097E+00	1.6379E+02	1.6379E+02	1.6379E+02	3.5600E+03	2.1789E+00	6.2469E+02
2.6000E-01	2.7975E+00	2.7975E+00	1.5225E+02	1.5225E+02	1.5225E+02	3.5600E+03	2.0968E+00	6.2940E+02
2.7000E-01	2.6981E+00	2.6981E+00	1.4237E+02	1.4237E+02	1.4237E+02	3.5600E+03	2.0580E+00	6.3436E+02
2.8000E-01	2.6133E+00	2.6133E+00	1.3809E+02	1.3809E+02	1.3809E+02	3.5600E+03	2.0205E+00	6.3901E+02
3.0000E-01	2.4685E+00	2.4685E+00	1.3500E+02	1.3500E+02	1.3500E+02	3.5600E+03	1.9845E+00	6.4291E+02
3.2000E-01	2.3385E+00	2.3385E+00	1.3128E+02	1.3128E+02	1.3128E+02	3.5600E+03	1.9498E+00	6.4701E+02
3.3000E-01	2.2699E+00	2.2699E+00	1.2860E+02	1.2860E+02	1.2860E+02	3.5600E+03	1.9163E+00	6.5082E+02
3.4000E-01	2.2388E+00	2.2388E+00	1.2591E+02	1.2591E+02	1.2591E+02	3.5600E+03	1.8840E+00	6.5402E+02
3.5000E-01	2.2011E+00	2.2011E+00	1.2356E+02	1.2356E+02	1.2356E+02	3.5600E+03	1.8530E+00	6.5738E+02
3.6000E-01	2.173E+00	2.173E+00	1.2078E+02	1.2078E+02	1.2078E+02	3.5600E+03	1.8231E+00	6.6050E+02
3.7000E-01	2.1517E+00	2.1517E+00	1.2078E+02	1.2078E+02	1.2078E+02	3.5600E+03	1.7843E+00	6.6341E+02
3.8000E-01	2.1364E+00	2.1364E+00	1.1959E+02	1.1959E+02	1.1959E+02	3.5600E+03	1.7667E+00	6.6583E+02
4.0000E-01	2.1344E+00	2.1344E+00	1.1959E+02	1.1959E+02	1.1959E+02	3.5600E+03	1.7402E+00	6.6836E+02
4.1000E-01	2.1364E+00	2.1364E+00	1.1962E+02	1.1962E+02	1.1962E+02	3.5600E+03	1.7146E+00	6.7073E+02
4.2000E-01	2.1432E+00	2.1432E+00	1.1962E+02	1.1962E+02	1.1962E+02	3.5600E+03	1.6902E+00	6.7270E+02
4.3000E-01	2.1563E+00	2.1563E+00	1.2076E+02	1.2076E+02	1.2076E+02	3.5600E+03	1.6667E+00	6.7478E+02
4.4000E-01	2.1746E+00	2.1746E+00	1.2151E+02	1.2151E+02	1.2151E+02	3.5600E+03	1.6442E+00	6.7669E+02
4.5000E-01	2.1940E+00	2.1940E+00	1.2271E+02	1.2271E+02	1.2271E+02	3.5600E+03	1.6225E+00	6.7830E+02
4.6000E-01	2.2173E+00	2.2173E+00	1.2410E+02	1.2410E+02	1.2410E+02	3.5600E+03	1.6019E+00	6.8000E+02
4.7000E-01	2.2173E+00	2.2173E+00	1.2410E+02	1.2410E+02	1.2410E+02	3.5600E+03	1.5821E+00	6.8158E+02

4.7000E-01	2.2434E+00	1.2582E+02	2.5702E+02	6.5447E+02	3.5600E+03	1.5632E+00	6.8307E+02
4.8000E-01	2.2699E+00	1.2893E+02	2.5702E+02	6.5609E+02	3.5600E+03	1.5845E+00	6.8431E+02
4.9000E-01	2.2972E+00	1.3249E+02	2.5702E+02	6.5762E+02	3.5600E+03	1.6078E+00	6.8563E+02
5.0000E-01	2.3257E+00	1.3619E+02	2.5704E+02	6.5906E+02	3.5600E+03	1.6327E+00	6.8686E+02
5.1000E-01	2.3542E+00	1.4017E+02	2.5708E+02	6.6042E+02	3.5600E+03	1.6594E+00	6.8790E+02
5.2000E-01	2.3835E+00	1.4436E+02	2.5709E+02	6.6170E+02	3.5600E+03	1.6878E+00	6.8900E+02
5.3000E-01	2.4136E+00	1.4878E+02	2.5713E+02	6.6291E+02	3.5600E+03	1.7180E+00	6.9003E+02
5.4000E-01	2.4446E+00	1.5342E+02	2.5717E+02	6.6406E+02	3.5600E+03	1.7499E+00	6.9100E+02
5.5000E-01	2.4761E+00	1.5828E+02	2.5723E+02	6.6514E+02	3.5600E+03	1.7832E+00	6.9182E+02
5.6000E-01	2.5091E+00	1.6336E+02	2.5735E+02	6.6616E+02	3.5600E+03	1.8178E+00	6.9269E+02
5.7000E-01	2.5430E+00	1.6866E+02	2.5742E+02	6.6713E+02	3.5600E+03	1.8537E+00	6.9351E+02
5.8000E-01	2.5777E+00	1.7419E+02	2.5749E+02	6.6805E+02	3.5600E+03	1.8908E+00	6.9421E+02
5.9000E-01	2.6134E+00	1.8000E+02	2.5757E+02	6.6891E+02	3.5600E+03	1.9292E+00	6.9494E+02
6.0000E-01	2.6500E+00	1.8614E+02	2.5766E+02	6.6973E+02	3.5600E+03	1.9689E+00	6.9564E+02
6.1000E-01	2.6888E+00	1.9252E+02	2.5775E+02	6.7051E+02	3.5600E+03	2.0098E+00	6.9623E+02
6.2000E-01	2.7297E+00	1.9914E+02	2.5784E+02	6.7124E+02	3.5600E+03	2.0520E+00	6.9686E+02
6.3000E-01	2.7726E+00	2.0600E+02	2.5794E+02	6.7194E+02	3.5600E+03	2.0954E+00	6.9745E+02
6.4000E-01	2.8176E+00	2.1312E+02	2.5804E+02	6.7260E+02	3.5600E+03	2.1401E+00	6.9801E+02
6.5000E-01	2.8646E+00	2.2052E+02	2.5815E+02	6.7323E+02	3.5600E+03	2.1861E+00	6.9859E+02
6.6000E-01	2.9136E+00	2.2824E+02	2.5825E+02	6.7382E+02	3.5600E+03	2.2334E+00	6.9917E+02
6.7000E-01	2.9646E+00	2.3628E+02	2.5836E+02	6.7438E+02	3.5600E+03	2.2820E+00	6.9976E+02
6.8000E-01	2.6740E+00	2.4464E+02	2.5847E+02	6.7491E+02	3.5600E+03	2.3317E+00	6.9999E+02
6.9000E-01	2.6808E+00	2.5332E+02	2.5858E+02	6.7542E+02	3.5600E+03	2.3826E+00	6.9947E+02
7.0000E-01	2.6866E+00	2.6240E+02	2.5870E+02	6.7590E+02	3.5600E+03	2.4347E+00	6.9988E+02
7.1000E-01	2.6914E+00	2.7176E+02	2.5881E+02	6.7635E+02	3.5600E+03	2.4880E+00	7.0031E+02
7.2000E-01	2.6972E+00	2.8140E+02	2.5893E+02	6.7678E+02	3.5600E+03	2.5425E+00	7.0072E+02
7.3000E-01	2.6989E+00	2.9132E+02	2.5904E+02	6.7719E+02	3.5600E+03	2.5982E+00	7.0107E+02
7.4000E-01	2.6995E+00	3.0152E+02	2.5915E+02	6.7757E+02	3.5600E+03	2.6551E+00	7.0144E+02
7.5000E-01	2.6992E+00	3.1200E+02	2.5927E+02	6.7793E+02	3.5600E+03	2.7132E+00	7.0179E+02
7.6000E-01	2.6982E+00	3.2276E+02	2.5938E+02	6.7826E+02	3.5600E+03	2.7726E+00	7.0212E+02
7.7000E-01	2.6965E+00	3.3380E+02	2.5950E+02	6.7856E+02	3.5600E+03	2.8323E+00	7.0240E+02
7.8000E-01	2.6938E+00	3.4512E+02	2.5961E+02	6.7881E+02	3.5600E+03	2.8933E+02	7.0271E+02
7.9000E-01	2.6907E+00	3.5672E+02	2.5972E+02	6.7901E+02	3.5600E+03	2.9556E+00	7.0303E+02
8.0000E-01	2.6871E+00	3.6860E+02	2.5983E+02	6.7916E+02	3.5600E+03	2.9999E+00	7.0334E+02
8.1000E-01	2.6826E+00	3.8076E+02	2.5994E+02	6.7926E+02	3.5600E+03	3.0463E+00	7.0366E+02
8.2000E-01	2.6778E+00	3.9320E+02	2.6005E+02	6.7931E+02	3.5600E+03	3.0948E+00	7.0396E+02
8.3000E-01	2.6726E+00	4.0592E+02	2.6016E+02	6.7931E+02	3.5600E+03	3.1454E+00	7.0416E+02
8.4000E-01	2.6669E+00	4.1892E+02	2.6026E+02	6.7926E+02	3.5600E+03	3.1981E+00	7.0437E+02
8.5000E-01	2.6607E+00	4.3220E+02	2.6036E+02	6.7916E+02	3.5600E+03	3.2528E+00	7.0456E+02
8.6000E-01	2.6544E+00	4.4576E+02	2.6046E+02	6.7901E+02	3.5600E+03	3.3095E+00	7.0475E+02
8.7000E-01	2.6477E+00	4.5960E+02	2.6056E+02	6.7881E+02	3.5600E+03	3.3682E+00	7.0491E+02
8.8000E-01	2.6407E+00	4.7372E+02	2.6066E+02	6.7856E+02	3.5600E+03	3.4289E+00	7.0507E+02
8.9000E-01	2.6335E+00	4.8808E+02	2.6075E+02	6.7826E+02	3.5600E+03	3.4916E+00	7.0522E+02
9.0000E-01	2.6262E+00	5.0276E+02	2.6085E+02	6.7793E+02	3.5600E+03	3.5563E+00	7.0537E+02
9.1000E-01	2.6186E+00	5.1776E+02	2.6094E+02	6.7757E+02	3.5600E+03	3.6230E+00	7.0551E+02
9.2000E-01	2.6109E+00	5.3308E+02	2.6102E+02	6.7719E+02	3.5600E+03	3.6917E+00	7.0564E+02
9.3000E-01	2.6032E+00	5.4872E+02	2.6111E+02	6.7678E+02	3.5600E+03	3.7624E+00	7.0575E+02
9.4000E-01	2.5953E+00	5.6468E+02	2.6119E+02	6.7635E+02	3.5600E+03	3.8351E+00	7.0588E+02
9.5000E-01	2.5874E+00	5.8096E+02	2.6127E+02	6.7590E+02	3.5600E+03	3.9098E+00	7.0599E+02
9.6000E-01	2.5795E+00	5.9756E+02	2.6135E+02	6.7542E+02	3.5600E+03	3.9865E+00	7.0608E+02
9.7000E-01	2.5716E+00	6.1448E+02	2.6143E+02	6.7491E+02	3.5600E+03	4.0652E+00	7.0618E+02
9.8000E-01	2.5636E+00	6.3172E+02	2.6150E+02	6.7438E+02	3.5600E+03	4.1459E+00	7.0628E+02
9.9000E-01	2.5557E+00	6.4928E+02	2.6158E+02	6.7382E+02	3.5600E+03	4.2286E+00	7.0636E+02
1.0000E+00	2.5478E+00	6.6716E+02	2.6166E+02	6.7323E+02	3.5600E+03	4.3133E+00	7.0644E+02
				6.7260E+02	3.5600E+03	4.4000E+00	7.0652E+02

Appendix #30.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.000E+00	5.050E+00	-2.387E-03	-5.929E-02	3.7123E-01	1.7969E+00	-1.7201E-08
1.000E-01	5.050E+00	9.3355E-04	9.4058E-01	3.7420E-01	2.4609E+00	1.6931E-05
2.000E-02	5.050E+00	7.5360E-03	1.1268E+00	3.9203E-01	3.8507E+00	1.5920E-05
3.000E-02	5.050E+00	1.4637E-02	1.2253E+00	3.9247E-01	3.0890E+00	1.3567E-05
4.000E-02	5.050E+00	2.1069E-02	1.2253E+00	4.0428E-01	3.2457E+00	1.2071E-05
5.000E-02	5.050E+00	2.6450E-02	1.2759E+00	4.1681E-01	3.3600E+00	1.0272E-05
6.000E-02	5.050E+00	3.0732E-02	1.2977E+00	4.2970E-01	3.4432E+00	8.5049E-06
7.000E-02	5.050E+00	3.4002E-02	1.3005E+00	4.4271E-01	3.5182E+00	6.9063E-06
8.000E-02	5.050E+00	3.6387E-02	1.2904E+00	4.5567E-01	3.5688E+00	5.5173E-06
9.000E-02	5.050E+00	3.8023E-02	1.2712E+00	4.6848E-01	3.6137E+00	4.3685E-06
1.000E-01	5.050E+00	3.9039E-02	1.2458E+00	4.8103E-01	3.6517E+00	3.4516E-06
1.000E-01	5.050E+00	3.9552E-02	1.2162E+00	4.9335E-01	3.6831E+00	2.7295E-06
1.000E-01	5.050E+00	3.9663E-02	1.1838E+00	5.0539E-01	3.7108E+00	2.1866E-06
1.000E-01	5.050E+00	3.9457E-02	1.1498E+00	5.1706E-01	3.7351E+00	1.7930E-06
1.000E-01	5.050E+00	3.9008E-02	1.1149E+00	5.2838E-01	3.7568E+00	1.5122E-06
1.000E-01	5.050E+00	3.8367E-02	1.0794E+00	5.3939E-01	3.7761E+00	1.3170E-06
1.000E-01	5.050E+00	3.7586E-02	1.0436E+00	5.4997E-01	3.7935E+00	1.1881E-06
1.000E-01	5.050E+00	3.6695E-02	1.0078E+00	5.6022E-01	3.8089E+00	1.1037E-06
1.000E-01	5.050E+00	3.5731E-02	9.7196E-01	5.7012E-01	3.8226E+00	1.0464E-06
2.000E-01	5.050E+00	3.4709E-02	9.3620E-01	5.7866E-01	3.8345E+00	1.0071E-06
2.000E-01	5.050E+00	3.3637E-02	9.0056E-01	5.8685E-01	3.8448E+00	9.7643E-07
2.000E-01	5.050E+00	3.2538E-02	8.6509E-01	5.9768E-01	3.8535E+00	9.4890E-07
2.000E-01	5.050E+00	3.1418E-02	8.2984E-01	6.0615E-01	3.8606E+00	9.2104E-07
2.000E-01	5.050E+00	3.0288E-02	7.9487E-01	6.1427E-01	3.8662E+00	8.9000E-07
2.000E-01	5.050E+00	2.9148E-02	7.6028E-01	6.2205E-01	3.8705E+00	8.5589E-07
2.000E-01	5.050E+00	2.8005E-02	7.2608E-01	6.2948E-01	3.8735E+00	8.1864E-07
2.000E-01	5.050E+00	2.6866E-02	6.9240E-01	6.3657E-01	3.8753E+00	7.7854E-07
2.000E-01	5.050E+00	2.5734E-02	6.5931E-01	6.4333E-01	3.8760E+00	7.3397E-07
2.000E-01	5.050E+00	2.4613E-02	6.2688E-01	6.4978E-01	3.8757E+00	6.9046E-07
2.000E-01	5.050E+00	2.3505E-02	5.9516E-01	6.5587E-01	3.8745E+00	6.4545E-07
2.000E-01	5.050E+00	2.2414E-02	5.6423E-01	6.6187E-01	3.8726E+00	5.9949E-07
2.000E-01	5.050E+00	2.1342E-02	5.3413E-01	6.6766E-01	3.8699E+00	5.5491E-07
2.000E-01	5.050E+00	2.0292E-02	5.0490E-01	6.7335E-01	3.8667E+00	5.1177E-07
2.000E-01	5.050E+00	1.9266E-02	4.7658E-01	6.7782E-01	3.8629E+00	4.6915E-07
2.000E-01	5.050E+00	1.8265E-02	4.4920E-01	6.8169E-01	3.8586E+00	4.2794E-07
2.000E-01	5.050E+00	1.7291E-02	4.2278E-01	6.8493E-01	3.8540E+00	3.8995E-07
2.000E-01	5.050E+00	1.6365E-02	3.9732E-01	6.8763E-01	3.8490E+00	3.5306E-07
2.000E-01	5.050E+00	1.5430E-02	3.7284E-01	6.9034E-01	3.8438E+00	3.1742E-07
2.000E-01	5.050E+00	1.4555E-02	3.4933E-01	6.9780E-01	3.8384E+00	2.8502E-07
2.000E-01	5.050E+00	1.3690E-02	3.2679E-01	7.0118E-01	3.8327E+00	2.5425E-07
2.000E-01	5.050E+00	1.2867E-02	3.0522E-01	7.0434E-01	3.8269E+00	2.2472E-07
2.000E-01	5.050E+00	1.2075E-02	2.8459E-01	7.0729E-01	3.8211E+00	1.9736E-07
2.000E-01	5.050E+00	1.1314E-02	2.6490E-01	7.1004E-01	3.8151E+00	1.7255E-07
2.000E-01	5.050E+00	1.0584E-02	2.4613E-01	7.1259E-01	3.8091E+00	1.4825E-07
2.000E-01	5.050E+00	9.8658E-03	2.2826E-01	7.1496E-01	3.8031E+00	1.2552E-07

4.5000E-01	5.0500E+00	1.0356E-06	9.2179E-03	2.1127E-01	7.1716E-01	3.7971E+00	1.0539E-07
4.6000E-01	5.0500E+00	9.6187E-07	9.5802E-03	1.9512E-01	7.1919E-01	3.7911E+00	8.6239E-08
4.7000E-01	5.0500E+00	9.9117E-07	7.9721E-03	1.7982E-01	7.2107E-01	3.7851E+00	6.8108E-08
4.8000E-01	5.0500E+00	9.2499E-07	7.3930E-03	1.6531E-01	7.2279E-01	3.7793E+00	5.1887E-08
5.0000E-01	5.0500E+00	7.6165E-07	6.8423E-03	1.5159E-01	7.2438E-01	3.7735E+00	3.6927E-08
5.0500E+00	5.0500E+00	7.0157E-07	6.3192E-03	1.3883E-01	7.2593E-01	3.7678E+00	2.2861E-08
5.0500E+00	5.0500E+00	6.4466E-07	5.8230E-03	1.2839E-01	7.2715E-01	3.7621E+00	1.0000E-08
5.0500E+00	5.0500E+00	5.9082E-07	5.3530E-03	1.1486E-01	7.2836E-01	3.7566E+00	-1.3428E-09
5.0500E+00	5.0500E+00	5.3996E-07	4.9081E-03	1.0400E-01	7.2945E-01	3.7513E+00	-1.1942E-08
5.0500E+00	5.0500E+00	4.9197E-07	4.4878E-03	9.3794E-02	7.3044E-01	3.7460E+00	-2.1752E-08
5.0500E+00	5.0500E+00	4.4674E-07	4.0911E-03	8.4212E-02	7.3133E-01	3.7409E+00	-3.0136E-08
5.0500E+00	5.0500E+00	4.0417E-07	3.7171E-03	7.5228E-02	7.3212E-01	3.7358E+00	-3.7827E-08
5.0500E+00	5.0500E+00	3.6416E-07	3.3651E-03	6.6817E-02	7.3283E-01	3.7308E+00	-4.4855E-08
5.0500E+00	5.0500E+00	3.2661E-07	3.0341E-03	5.8954E-02	7.3346E-01	3.7263E+00	-5.0937E-08
5.0500E+00	5.0500E+00	2.9141E-07	2.7231E-03	5.1614E-02	7.3402E-01	3.7217E+00	-6.0994E-08
5.0500E+00	5.0500E+00	2.5846E-07	2.4321E-03	4.472E-02	7.3450E-01	3.7173E+00	-6.0994E-08
5.0500E+00	5.0500E+00	2.2766E-07	2.1593E-03	3.8406E-02	7.3498E-01	3.7130E+00	-6.5133E-08
5.0500E+00	5.0500E+00	1.9922E-07	1.9043E-03	3.2491E-02	7.3527E-01	3.7088E+00	-7.1451E-08
5.0500E+00	5.0500E+00	1.7213E-07	1.6663E-03	2.7006E-02	7.3556E-01	3.7048E+00	-7.3943E-08
5.0500E+00	5.0500E+00	1.4722E-07	1.444E-03	2.2006E-02	7.3581E-01	3.6973E+00	-7.5854E-08
5.0500E+00	5.0500E+00	1.2408E-07	1.2380E-03	1.7238E-02	7.3600E-01	3.6893E+00	-7.7373E-08
5.0500E+00	5.0500E+00	1.0283E-07	1.0462E-03	1.2914E-02	7.3615E-01	3.6803E+00	-7.8537E-08
5.0500E+00	5.0500E+00	8.2781E-08	8.6830E-04	9.9360E-03	7.3626E-01	3.6870E+00	-7.9316E-08
5.0500E+00	5.0500E+00	6.4451E-08	7.0367E-04	5.2855E-03	7.3633E-01	3.6838E+00	-7.9752E-08
5.0500E+00	5.0500E+00	4.7599E-08	5.5159E-04	1.9439E-03	7.3637E-01	3.6808E+00	-7.9913E-08
5.0500E+00	5.0500E+00	3.2028E-08	4.1138E-04	-1.1065E-03	7.3637E-01	3.6779E+00	-7.9799E-08
5.0500E+00	5.0500E+00	1.7782E-08	2.8242E-04	-0.8825E-03	7.3635E-01	3.6751E+00	-7.9436E-08
5.0500E+00	5.0500E+00	4.7488E-09	1.6408E-04	-0.4008E-03	7.3630E-01	3.6724E+00	-7.8861E-08
5.0500E+00	5.0500E+00	-7.1410E-09	5.5785E-05	-0.6782E-03	7.3622E-01	3.6692E+00	-7.8075E-08
5.0500E+00	5.0500E+00	-1.7954E-08	-4.3094E-05	-0.725E-02	7.3612E-01	3.6692E+00	-7.7129E-08
5.0500E+00	5.0500E+00	-2.7755E-08	-1.3305E-04	-1.2560E-02	7.3601E-01	3.6685E+00	-7.6035E-08
5.0500E+00	5.0500E+00	-3.6605E-08	-2.1463E-04	-1.4196E-02	7.3585E-01	3.6680E+00	-7.3409E-08
5.0500E+00	5.0500E+00	-4.4563E-08	-3.5468E-04	-1.5645E-02	7.3572E-01	3.6630E+00	-7.4783E-08
5.0500E+00	5.0500E+00	-5.1686E-08	-5.8027E-04	-1.6921E-02	7.3552E-01	3.6609E+00	-7.3409E-08
5.0500E+00	5.0500E+00	-6.3637E-08	-4.1410E-04	-1.8034E-02	7.3539E-01	3.6589E+00	-7.1971E-08
5.0500E+00	5.0500E+00	-8.5666E-08	-5.1394E-04	-1.8997E-02	7.3520E-01	3.6570E+00	-7.0416E-08
5.0500E+00	5.0500E+00	-7.2859E-08	-4.6705E-04	-1.9972E-02	7.3501E-01	3.6552E+00	-6.8749E-08
5.0500E+00	5.0500E+00	-7.6562E-08	-5.5570E-04	-2.0819E-02	7.3480E-01	3.6535E+00	-6.7096E-08
5.0500E+00	5.0500E+00	-7.9716E-08	-5.9118E-04	-2.1542E-02	7.3460E-01	3.6519E+00	-6.5366E-08
5.0500E+00	5.0500E+00	-8.2361E-08	-6.228E-04	-2.2084E-02	7.3438E-01	3.6504E+00	-6.3556E-08
5.0500E+00	5.0500E+00	-8.4535E-08	-6.562E-04	-2.2549E-02	7.3417E-01	3.6489E+00	-6.1749E-08
5.0500E+00	5.0500E+00	-8.6274E-08	-6.7115E-04	-2.2938E-02	7.3395E-01	3.6476E+00	-5.9942E-08
5.0500E+00	5.0500E+00	-8.7612E-08	-7.0437E-04	-2.3243E-02	7.3372E-01	3.6463E+00	-5.8081E-08
5.0500E+00	5.0500E+00	-8.8580E-08	-7.1585E-04	-2.3468E-02	7.3350E-01	3.6451E+00	-5.6193E-08
5.0500E+00	5.0500E+00	-8.9209E-08	-7.2426E-04	-2.3652E-02	7.3327E-01	3.6439E+00	-5.4300E-08
5.0500E+00	5.0500E+00	-8.9528E-08	-7.2985E-04	-2.3783E-02	7.3305E-01	3.6428E+00	-5.2531E-08
5.0500E+00	5.0500E+00	-8.9563E-08	-7.3286E-04	-2.3222E-02	7.3283E-01	3.6418E+00	-5.0651E-08
5.0500E+00	5.0500E+00	-8.8340E-08	-7.3268E-04	-2.2166E-02	7.3260E-01	3.6409E+00	-4.8861E-08
5.0500E+00	5.0500E+00	-8.8882E-08	-7.3352E-04	-2.1960E-02	7.3238E-01	3.6400E+00	-4.7075E-08
5.0500E+00	5.0500E+00	-8.8882E-08	-7.3203E-04	-2.1711E-02	7.3216E-01	3.6391E+00	-4.5270E-08
5.0500E+00	5.0500E+00	-8.6212E-08	-7.2858E-04	-2.1422E-02	7.3195E-01	3.6382E+00	-4.3513E-08
5.0500E+00	5.0500E+00	-8.7350E-08	-7.2337E-04	-2.1097E-02	7.3174E-01	3.6373E+00	-4.1824E-08
5.0500E+00	5.0500E+00	-8.6317E-08	-7.1856E-04	-2.0742E-02	7.3153E-01	3.6364E+00	-4.0125E-08
5.0500E+00	5.0500E+00	-8.5130E-08	-7.0832E-04	-2.0359E-02	7.3132E-01	3.6355E+00	-3.8431E-08
5.0500E+00	5.0500E+00	-8.3807E-08	-6.9880E-04	-1.9953E-02	7.3112E-01	3.6346E+00	-3.6859E-08
5.0500E+00	5.0500E+00	-8.2364E-08	-6.8814E-04	-1.9526E-02	7.3092E-01	3.6337E+00	-3.5285E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
1.0000E-05	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+06	0.0000E+00	7.4400E+01	4.1776E+03
1.8280E+00	2.1589E-10	3.3566E+03	2.7800E+01	1.7780E-02	2.5600E-10	8.3283E-09	1.7140E+00
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	1.5000E-08	8.2600E+01	1.8500E-06
4.3790E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	5.6000E+01
0.0000E+00	8.0000E+01						7.2259E+00
1.0000E-02	1.0367E-09	6.2749E-07	2.5701E-02	4.4057E+00	7.1724E+02	3.4576E+01	4.9337E+03
1.0000E-01	1.1126E-09	6.3325E-07	2.5877E-02	4.4374E+00	7.2188E+02	4.9404E+01	4.4032E+03
3.0000E-02	1.1946E-09	6.2841E-07	2.5936E-02	4.4209E+00	7.2224E+02	5.8249E+01	4.9387E+03
5.0000E-02	1.2705E-09	6.2571E-07	2.5791E-02	4.4139E+00	7.1977E+02	6.1625E+01	5.5105E+03
4.0000E-02	1.3364E-09	6.2884E-07	2.5770E-02	4.4171E+00	7.1895E+02	6.3633E+01	6.0124E+03
6.0000E-02	1.3918E-09	6.3386E-07	2.5794E-02	4.4289E+00	7.2092E+02	6.4838E+01	6.4355E+03
7.0000E-02	1.4375E-09	6.3914E-07	2.5860E-02	4.4468E+00	7.2317E+02	6.5447E+01	6.7797E+03
8.0000E-02	1.4735E-09	6.4366E-07	2.5956E-02	4.4673E+00	7.2674E+02	6.5886E+01	7.0566E+03
1.0000E-01	1.5072E-09	6.4764E-07	2.6071E-02	4.4891E+00	7.3058E+02	6.6483E+01	7.2783E+03
1.0000E-01	1.5272E-09	6.5101E-07	2.6193E-02	4.5107E+00	7.3432E+02	6.6916E+01	7.4531E+03
1.2000E-01	1.5438E-09	6.5327E-07	2.6313E-02	4.5301E+00	7.3804E+02	6.7300E+01	7.5903E+03
1.3000E-01	1.5598E-09	6.5491E-07	2.6424E-02	4.5473E+00	7.4094E+02	6.7648E+01	7.7002E+03
1.4000E-01	1.5746E-09	6.5610E-07	2.6524E-02	4.5621E+00	7.4284E+02	6.7952E+01	7.7884E+03
1.5000E-01	1.5796E-09	6.5672E-07	2.6609E-02	4.5740E+00	7.4435E+02	6.8222E+01	7.8604E+03
1.6000E-01	1.5879E-09	6.5688E-07	2.6678E-02	4.5831E+00	7.4535E+02	6.8455E+01	7.9218E+03
1.7000E-01	1.6020E-09	6.5683E-07	2.6732E-02	4.5895E+00	7.4595E+02	6.8652E+01	7.9758E+03
1.8000E-01	1.6084E-09	6.5619E-07	2.6777E-02	4.5947E+00	7.4719E+02	6.8791E+01	8.0246E+03
1.9000E-01	1.6144E-09	6.5570E-07	2.6801E-02	4.5975E+00	7.4785E+02	6.8875E+01	8.0701E+03
2.0000E-01	1.6203E-09	6.5515E-07	2.6827E-02	4.5988E+00	7.4841E+02	6.8455E+01	8.1137E+03
2.1000E-01	1.6259E-09	6.5458E-07	2.6846E-02	4.5985E+00	7.4871E+02	6.8085E+01	8.1558E+03
2.2000E-01	1.6315E-09	6.5401E-07	2.6858E-02	4.5968E+00	7.4861E+02	6.7888E+01	8.1967E+03
2.3000E-01	1.6368E-09	6.5343E-07	2.6874E-02	4.5944E+00	7.4799E+02	6.7495E+01	8.2366E+03
2.4000E-01	1.6420E-09	6.5286E-07	2.6884E-02	4.5919E+00	7.4735E+02	6.7082E+01	8.2754E+03
2.5000E-01	1.6469E-09	6.5224E-07	2.6889E-02	4.5891E+00	7.4766E+02	6.6680E+01	8.3131E+03
2.6000E-01	1.6516E-09	6.5171E-07	2.6774E-02	4.5891E+00	7.4718E+02	6.6260E+01	8.3495E+03
2.7000E-01	1.6561E-09	6.5127E-07	2.6756E-02	4.5862E+00	7.4686E+02	6.5843E+03	8.3843E+03
2.8000E-01	1.6603E-09	6.5081E-07	2.6739E-02	4.5830E+00	7.4611E+02	6.5417E+03	8.4176E+03
2.9000E-01	1.6642E-09	6.5035E-07	2.6720E-02	4.5799E+00	7.4514E+02	6.4992E+03	8.4492E+03
3.0000E-01	1.6678E-09	6.4988E-07	2.6702E-02	4.5767E+00	7.4458E+02	6.4567E+03	8.4788E+03
3.1000E-01	1.6713E-09	6.4945E-07	2.6684E-02	4.5735E+00	7.4417E+02	6.4142E+03	8.5067E+03
3.2000E-01	1.6744E-09	6.4903E-07	2.6665E-02	4.5704E+00	7.4363E+02	6.3716E+03	8.5329E+03
3.3000E-01	1.6773E-09	6.4864E-07	2.6648E-02	4.5674E+00	7.4310E+02	6.3291E+03	8.5571E+03
3.4000E-01	1.6800E-09	6.4823E-07	2.6630E-02	4.5644E+00	7.4262E+02	6.2866E+03	8.5794E+03
3.5000E-01	1.6824E-09	6.4789E-07	2.6613E-02	4.5614E+00	7.4222E+02	6.2441E+03	8.6002E+03
3.6000E-01	1.6846E-09	6.4754E-07	2.6597E-02	4.5585E+00	7.4174E+02	6.2016E+03	8.6192E+03
3.7000E-01	1.6866E-09	6.4719E-07	2.6581E-02	4.5555E+00	7.4126E+02	6.1591E+03	8.6365E+03
3.8000E-01	1.6883E-09	6.4689E-07	2.6566E-02	4.5533E+00	7.4078E+02	6.1176E+03	8.6523E+03
3.9000E-01	1.6899E-09	6.4660E-07	2.6551E-02	4.5508E+00	7.4029E+02	6.0761E+03	8.6668E+03
4.0000E-01	1.6913E-09	6.4630E-07	2.6537E-02	4.5484E+00	7.4052E+02	6.0346E+03	8.6797E+03
4.1000E-01	1.6926E-09	6.4604E-07	2.6524E-02	4.5461E+00	7.4011E+02	6.0138E+03	8.6913E+03
4.2000E-01	1.6937E-09	6.4580E-07	2.6511E-02	4.5439E+00	7.3982E+02	6.0110E+03	8.7018E+03
4.3000E-01	1.6946E-09	6.4556E-07	2.6499E-02	4.5419E+00	7.3946E+02	6.0110E+03	8.7110E+03
4.4000E-01	1.6954E-09	6.4533E-07	2.6489E-02	4.5399E+00	7.3911E+02	6.0110E+03	8.7181E+03
4.5000E-01	1.6961E-09	6.4515E-07	2.6487E-02	4.5380E+00	7.3886E+02	6.0110E+03	8.7265E+03
4.6000E-01	1.6967E-09	6.4496E-07	2.6477E-02	4.5363E+00	7.3855E+02	6.0110E+03	8.7325E+03
4.7000E-01	1.6971E-09	6.4486E-07	2.6466E-02	4.5347E+00	7.3826E+02	6.0110E+03	8.7377E+03
4.8000E-01	1.6974E-09	6.4480E-07	2.6466E-02	4.5347E+00	7.3826E+02	6.0110E+03	8.7421E+03



4.7000E-01	1.6971E-09	6.4477E-07	2.6457E-02	4.5331E+00	7.3799E+02	7.2506E+01	8.7458E+03
4.8000E-01	1.6975E-09	6.4462E-07	2.6448E-02	4.5317E+00	7.3780E+02	7.2555E+01	8.7488E+03
4.9000E-01	1.6977E-09	6.4447E-07	2.6440E-02	4.5304E+00	7.3761E+02	7.2593E+01	8.7510E+03
5.0000E-01	1.6979E-09	6.4433E-07	2.6432E-02	4.5291E+00	7.3750E+02	7.2631E+01	8.7527E+03
5.1000E-01	1.6980E-09	6.4420E-07	2.6425E-02	4.5280E+00	7.3735E+02	7.2669E+01	8.7538E+03
5.2000E-01	1.6980E-09	6.4410E-07	2.6418E-02	4.5269E+00	7.3720E+02	7.2706E+01	8.7544E+03
5.3000E-01	1.6980E-09	6.4395E-07	2.6412E-02	4.5260E+00	7.3701E+02	7.2743E+01	8.7545E+03
5.4000E-01	1.6979E-09	6.4382E-07	2.6406E-02	4.5250E+00	7.3684E+02	7.2779E+01	8.7542E+03
5.5000E-01	1.6977E-09	6.4371E-07	2.6401E-02	4.5242E+00	7.3668E+02	7.2814E+01	8.7542E+03
5.6000E-01	1.6972E-09	6.4367E-07	2.6396E-02	4.5235E+00	7.3657E+02	7.2849E+01	8.7535E+03
5.7000E-01	1.6970E-09	6.4361E-07	2.6392E-02	4.5228E+00	7.3644E+02	7.2884E+01	8.7525E+03
5.8000E-01	1.6967E-09	6.4356E-07	2.6388E-02	4.5222E+00	7.3632E+02	7.2918E+01	8.7511E+03
5.9000E-01	1.6963E-09	6.4351E-07	2.6384E-02	4.5217E+00	7.3623E+02	7.2951E+01	8.7494E+03
6.0000E-01	1.6960E-09	6.4347E-07	2.6381E-02	4.5212E+00	7.3614E+02	7.2982E+01	8.7475E+03
6.1000E-01	1.6956E-09	6.4342E-07	2.6378E-02	4.5207E+00	7.3605E+02	7.3012E+01	8.7454E+03
6.2000E-01	1.6952E-09	6.4338E-07	2.6375E-02	4.5203E+00	7.3595E+02	7.3041E+01	8.7430E+03
6.3000E-01	1.6947E-09	6.4334E-07	2.6373E-02	4.5200E+00	7.3586E+02	7.3069E+01	8.7408E+03
6.4000E-01	1.6943E-09	6.4330E-07	2.6371E-02	4.5197E+00	7.3577E+02	7.3096E+01	8.7379E+03
6.5000E-01	1.6938E-09	6.4325E-07	2.6369E-02	4.5194E+00	7.3568E+02	7.3122E+01	8.7351E+03
6.6000E-01	1.6934E-09	6.4321E-07	2.6367E-02	4.5192E+00	7.3559E+02	7.3147E+01	8.7323E+03
6.7000E-01	1.6929E-09	6.4317E-07	2.6365E-02	4.5189E+00	7.3550E+02	7.3171E+01	8.7293E+03
6.8000E-01	1.6925E-09	6.4313E-07	2.6363E-02	4.5187E+00	7.3541E+02	7.3194E+01	8.7263E+03
6.9000E-01	1.6920E-09	6.4309E-07	2.6361E-02	4.5185E+00	7.3532E+02	7.3216E+01	8.7232E+03
7.0000E-01	1.6915E-09	6.4305E-07	2.6359E-02	4.5183E+00	7.3523E+02	7.3237E+01	8.7201E+03
7.1000E-01	1.6910E-09	6.4301E-07	2.6357E-02	4.5181E+00	7.3514E+02	7.3257E+01	8.7170E+03
7.2000E-01	1.6905E-09	6.4297E-07	2.6355E-02	4.5179E+00	7.3505E+02	7.3276E+01	8.7139E+03
7.3000E-01	1.6901E-09	6.4293E-07	2.6353E-02	4.5177E+00	7.3496E+02	7.3294E+01	8.7107E+03
7.4000E-01	1.6896E-09	6.4289E-07	2.6351E-02	4.5175E+00	7.3487E+02	7.3311E+01	8.7076E+03
7.5000E-01	1.6892E-09	6.4285E-07	2.6349E-02	4.5173E+00	7.3478E+02	7.3327E+01	8.7045E+03
7.6000E-01	1.6887E-09	6.4281E-07	2.6347E-02	4.5171E+00	7.3469E+02	7.3342E+01	8.7014E+03
7.7000E-01	1.6883E-09	6.4277E-07	2.6345E-02	4.5169E+00	7.3460E+02	7.3356E+01	8.6984E+03
7.8000E-01	1.6879E-09	6.4273E-07	2.6343E-02	4.5167E+00	7.3451E+02	7.3369E+01	8.6954E+03
7.9000E-01	1.6875E-09	6.4269E-07	2.6341E-02	4.5165E+00	7.3442E+02	7.3381E+01	8.6924E+03
8.0000E-01	1.6871E-09	6.4265E-07	2.6339E-02	4.5163E+00	7.3433E+02	7.3392E+01	8.6894E+03
8.1000E-01	1.6867E-09	6.4261E-07	2.6337E-02	4.5161E+00	7.3424E+02	7.3403E+01	8.6864E+03
8.2000E-01	1.6863E-09	6.4257E-07	2.6335E-02	4.5159E+00	7.3415E+02	7.3413E+01	8.6834E+03
8.3000E-01	1.6859E-09	6.4253E-07	2.6333E-02	4.5157E+00	7.3406E+02	7.3423E+01	8.6804E+03
8.4000E-01	1.6855E-09	6.4249E-07	2.6331E-02	4.5155E+00	7.3397E+02	7.3432E+01	8.6774E+03
8.5000E-01	1.6851E-09	6.4245E-07	2.6329E-02	4.5153E+00	7.3388E+02	7.3441E+01	8.6744E+03
8.6000E-01	1.6847E-09	6.4241E-07	2.6327E-02	4.5151E+00	7.3379E+02	7.3449E+01	8.6714E+03
8.7000E-01	1.6843E-09	6.4237E-07	2.6325E-02	4.5149E+00	7.3370E+02	7.3457E+01	8.6684E+03
8.8000E-01	1.6839E-09	6.4233E-07	2.6323E-02	4.5147E+00	7.3361E+02	7.3465E+01	8.6654E+03
8.9000E-01	1.6835E-09	6.4229E-07	2.6321E-02	4.5145E+00	7.3352E+02	7.3473E+01	8.6624E+03
9.0000E-01	1.6831E-09	6.4225E-07	2.6319E-02	4.5143E+00	7.3343E+02	7.3481E+01	8.6594E+03
9.1000E-01	1.6827E-09	6.4221E-07	2.6317E-02	4.5141E+00	7.3334E+02	7.3488E+01	8.6564E+03
9.2000E-01	1.6823E-09	6.4217E-07	2.6315E-02	4.5139E+00	7.3325E+02	7.3495E+01	8.6534E+03
9.3000E-01	1.6819E-09	6.4213E-07	2.6313E-02	4.5137E+00	7.3316E+02	7.3502E+01	8.6504E+03
9.4000E-01	1.6815E-09	6.4209E-07	2.6311E-02	4.5135E+00	7.3307E+02	7.3509E+01	8.6474E+03
9.5000E-01	1.6811E-09	6.4205E-07	2.6309E-02	4.5133E+00	7.3298E+02	7.3516E+01	8.6444E+03
9.6000E-01	1.6807E-09	6.4201E-07	2.6307E-02	4.5131E+00	7.3289E+02	7.3523E+01	8.6414E+03
9.7000E-01	1.6803E-09	6.4197E-07	2.6305E-02	4.5129E+00	7.3280E+02	7.3530E+01	8.6384E+03
9.8000E-01	1.6800E-09	6.4193E-07	2.6303E-02	4.5127E+00	7.3271E+02	7.3537E+01	8.6354E+03
9.9000E-01	1.6796E-09	6.4189E-07	2.6301E-02	4.5125E+00	7.3262E+02	7.3544E+01	8.6324E+03
1.0000E-00	1.6792E-09	6.4185E-07	2.6299E-02	4.5123E+00	7.3253E+02	7.3551E+01	8.6294E+03



4.7000E-01	5.2379E+00	3.9379E+01	9.6844E-06	1.0000E+01	-4.6815E-08	3.7693E-06	3.5463E-07
4.8000E-01	5.0628E+00	3.9430E+01	9.6963E-06	1.0000E+01	-3.6101E-08	3.7689E-06	3.7689E-06
4.9000E-01	4.8878E+00	3.9480E+01	9.7092E-06	1.0000E+01	-2.3288E-08	3.7686E-06	4.2208E-07
5.0000E-01	4.7143E+00	3.9528E+01	9.7202E-06	1.0000E+01	-1.1538E-08	3.7684E-06	4.5610E-07
5.1000E-01	4.5408E+00	3.9574E+01	9.7322E-06	1.0000E+01	-3.3515E-09	3.7682E-06	4.8611E-07
5.2000E-01	4.3673E+00	3.9619E+01	9.7441E-06	1.0000E+01	6.6000E-09	3.7682E-06	5.1800E-07
5.3000E-01	4.2020E+00	3.9662E+01	9.7559E-06	1.0000E+01	1.5625E-08	3.7682E-06	5.4873E-07
5.4000E-01	4.0382E+00	3.9703E+01	9.7677E-06	1.0000E+01	2.3773E-08	3.7689E-06	5.7830E-07
5.5000E-01	3.8723E+00	3.9743E+01	9.7793E-06	1.0000E+01	2.9278E-08	3.7689E-06	6.0461E-07
5.6000E-01	3.7119E+00	3.9780E+01	9.7908E-06	1.0000E+01	3.5668E-08	3.7693E-06	6.3198E-07
5.7000E-01	3.5550E+00	3.9817E+01	9.8022E-06	1.0000E+01	4.1919E-08	3.7696E-06	6.5822E-07
5.8000E-01	3.4014E+00	3.9852E+01	9.8133E-06	1.0000E+01	4.5822E-08	3.7701E-06	6.8178E-07
5.9000E-01	3.2513E+00	3.9885E+01	9.8243E-06	1.0000E+01	5.0559E-08	3.7706E-06	7.0588E-07
6.0000E-01	3.1053E+00	3.9917E+01	9.8351E-06	1.0000E+01	5.4681E-08	3.7711E-06	7.2691E-07
6.1000E-01	2.9632E+00	3.9947E+01	9.8456E-06	1.0000E+01	5.7264E-08	3.7717E-06	7.4579E-07
6.2000E-01	2.8248E+00	3.9976E+01	9.8559E-06	1.0000E+01	6.0392E-08	3.7722E-06	7.7080E-07
6.3000E-01	2.6906E+00	4.0003E+01	9.8660E-06	1.0000E+01	6.3019E-08	3.7729E-06	7.9081E-07
6.4000E-01	2.5607E+00	4.0030E+01	9.8759E-06	1.0000E+01	6.5184E-08	3.7735E-06	8.0585E-07
6.5000E-01	2.4347E+00	4.0055E+01	9.8855E-06	1.0000E+01	6.6364E-08	3.7742E-06	8.2729E-07
6.6000E-01	2.3129E+00	4.0079E+01	9.8948E-06	1.0000E+01	6.7794E-08	3.7748E-06	8.4454E-07
6.7000E-01	2.1954E+00	4.0101E+01	9.9040E-06	1.0000E+01	6.8957E-08	3.7755E-06	8.6090E-07
6.8000E-01	2.0819E+00	4.0122E+01	9.9128E-06	1.0000E+01	6.9764E-08	3.7762E-06	8.7605E-07
6.9000E-01	1.9725E+00	4.0143E+01	9.9214E-06	1.0000E+01	6.9753E-08	3.7769E-06	8.9078E-07
7.0000E-01	1.8671E+00	4.0162E+01	9.9297E-06	1.0000E+01	6.9959E-08	3.7776E-06	9.0474E-07
7.1000E-01	1.7656E+00	4.0180E+01	9.9378E-06	1.0000E+01	6.9772E-08	3.7783E-06	9.1779E-07
7.2000E-01	1.6684E+00	4.0197E+01	9.9456E-06	1.0000E+01	6.9541E-08	3.7790E-06	9.3028E-07
7.3000E-01	1.5750E+00	4.0213E+01	9.9531E-06	1.0000E+01	6.9095E-08	3.7797E-06	9.4208E-07
7.4000E-01	1.4853E+00	4.0229E+01	9.9604E-06	1.0000E+01	6.8456E-08	3.7804E-06	9.5322E-07
7.5000E-01	1.3994E+00	4.0243E+01	9.9674E-06	1.0000E+01	6.7697E-08	3.7811E-06	9.6375E-07
7.6000E-01	1.3171E+00	4.0257E+01	9.9742E-06	1.0000E+01	6.6772E-08	3.7817E-06	9.7365E-07
7.7000E-01	1.2384E+00	4.0269E+01	9.9808E-06	1.0000E+01	6.5709E-08	3.7824E-06	9.8297E-07
7.8000E-01	1.1631E+00	4.0281E+01	9.9870E-06	1.0000E+01	6.4611E-08	3.7830E-06	9.9189E-07
7.9000E-01	1.0913E+00	4.0293E+01	9.9931E-06	1.0000E+01	6.3411E-08	3.7837E-06	1.0001E-06
8.0000E-01	1.0228E+00	4.0303E+01	9.9989E-06	1.0000E+01	6.2055E-08	3.7843E-06	1.00079E-06
8.1000E-01	9.5738E-01	4.0313E+01	1.0004E-05	1.0000E+01	6.0619E-08	3.7849E-06	1.0151E-06
8.2000E-01	8.9521E-01	4.0322E+01	1.0010E-05	1.0000E+01	5.9322E-08	3.7855E-06	1.0222E-06
8.3000E-01	8.3599E-01	4.0331E+01	1.0015E-05	1.0000E+01	5.7810E-08	3.7861E-06	1.0285E-06
8.4000E-01	7.7961E-01	4.0339E+01	1.0020E-05	1.0000E+01	5.6221E-08	3.7867E-06	1.0345E-06
8.5000E-01	7.2610E-01	4.0347E+01	1.0025E-05	1.0000E+01	5.4869E-08	3.7872E-06	1.0403E-06
8.6000E-01	6.7535E-01	4.0354E+01	1.0029E-05	1.0000E+01	5.3226E-08	3.7878E-06	1.0455E-06
8.7000E-01	6.2714E-01	4.0360E+01	1.0033E-05	1.0000E+01	5.1560E-08	3.7883E-06	1.0503E-06
8.8000E-01	5.8141E-01	4.0366E+01	1.0037E-05	1.0000E+01	5.0179E-08	3.7888E-06	1.0551E-06
8.9000E-01	5.3825E-01	4.0372E+01	1.0041E-05	1.0000E+01	4.8498E-08	3.7893E-06	1.0593E-06
9.0000E-01	4.9735E-01	4.0377E+01	1.0045E-05	1.0000E+01	4.6816E-08	3.7898E-06	1.0632E-06
9.1000E-01	4.5861E-01	4.0382E+01	1.0049E-05	1.0000E+01	4.5138E-08	3.7902E-06	1.0668E-06
9.2000E-01	4.2166E-01	4.0386E+01	1.0052E-05	1.0000E+01	4.3779E-08	3.7907E-06	1.0704E-06
9.3000E-01	3.8775E-01	4.0390E+01	1.0055E-05	1.0000E+01	4.2126E-08	3.7911E-06	1.0735E-06
9.4000E-01	3.5524E-01	4.0394E+01	1.0058E-05	1.0000E+01	4.0489E-08	3.7915E-06	1.0763E-06
9.5000E-01	3.2486E-01	4.0397E+01	1.0061E-05	1.0000E+01	3.9180E-08	3.7919E-06	1.0792E-06
9.6000E-01	2.9596E-01	4.0400E+01	1.0064E-05	1.0000E+01	3.7689E-08	3.7923E-06	1.0816E-06
9.7000E-01	2.6892E-01	4.0403E+01	1.0067E-05	1.0000E+01	3.6024E-08	3.7927E-06	1.0838E-06
9.8000E-01	2.4347E-01	4.0406E+01	1.0069E-05	1.0000E+01	3.4784E-08	3.7930E-06	1.0861E-06
9.9000E-01	2.1976E-01	4.0408E+01	1.0071E-05	1.0000E+01	3.3278E-08	3.7934E-06	1.0879E-06
1.0000E+00	1.9748E-01	4.0410E+01	1.0074E-05	1.0000E+01	3.1804E-08	3.7937E-06	1.0896E-06

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE	27 VARIABLE	28 VARIABLE
0.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.8320E-05	5.8000E-10	0.0000E+00	1.6940E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.8380E-02	1.1589E-10	3.9566E+03	2.7800E+01	1.7780E-02	2.5600E-10	8.3263E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E+03	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E-01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	8.0000E+01						
1.0000E-02	1.1760E+01	8.2633E+02	2.7086E+02	6.5540E+02	7.1200E+03	1.7615E+00	6.9878E+02
8.0000E-02	1.0253E+01	6.0782E+02	2.7318E+02	6.6076E+02	7.1200E+03	1.8280E+00	7.0253E+02
9.0000E-02	9.9486E+00	5.6253E+02	2.7634E+02	6.6409E+02	7.1200E+03	1.8877E+00	7.0651E+02
1.0000E-01	9.9168E+00	4.9937E+02	2.7725E+02	6.6741E+02	7.1200E+03	1.9413E+00	7.1040E+02
1.2000E-01	7.7404E+00	4.4702E+02	2.7887E+02	6.7047E+02	7.1200E+03	1.9895E+00	7.1362E+02
1.3000E-01	6.5822E+00	3.7400E+02	2.8018E+02	6.7314E+02	7.1200E+03	2.0329E+00	7.1679E+02
1.4000E-01	5.3840E+00	3.0289E+02	2.8113E+02	6.7537E+02	7.1200E+03	2.0720E+00	7.1946E+02
1.5000E-01	4.3128E+00	1.9327E+02	2.8218E+02	6.7840E+02	7.1200E+03	2.1075E+00	7.2141E+02
1.6000E-01	2.4731E+00	1.4159E+02	2.8232E+02	6.7927E+02	7.1200E+03	2.1400E+00	7.2311E+02
1.7000E-01	1.7630E+00	1.0839E+02	2.8225E+02	6.7977E+02	7.1200E+03	2.1699E+00	7.2435E+02
1.8000E-01	1.1752E+00	7.1266E+01	2.8200E+02	6.7896E+02	7.1200E+03	2.1975E+00	7.2512E+02
1.9000E-01	7.0001E-01	4.1607E+01	2.810E+02	6.7896E+02	7.1200E+03	2.2233E+00	7.2591E+02
2.0000E-01	3.2358E-01	1.8492E+01	2.810E+02	6.7896E+02	7.1200E+03	2.2473E+00	7.2591E+02
2.1000E-01	3.1839E-02	4.8541E+00	2.8050E+02	6.7896E+02	7.1200E+03	2.2698E+00	7.2591E+02
2.2000E-01	1.8870E-01	9.1747E+00	2.7983E+02	6.7896E+02	7.1200E+03	2.2910E+00	7.2581E+02
2.3000E-01	3.5072E-01	1.9266E+01	2.7911E+02	6.7867E+02	7.1200E+03	2.3109E+00	7.2554E+02
2.4000E-01	8.8494E-01	2.4724E+01	2.7835E+02	6.7808E+02	7.1200E+03	2.3297E+00	7.2517E+02
2.5000E-01	5.4015E-01	2.9770E+01	2.7758E+02	6.7740E+02	7.1200E+03	2.3474E+00	7.2478E+02
2.6000E-01	5.8468E-01	3.2618E+01	2.7679E+02	6.7681E+02	7.1200E+03	2.3641E+00	7.2430E+02
2.7000E-01	8.0468E-01	3.3663E+01	2.7596E+02	6.7600E+02	7.1200E+03	2.3799E+00	7.2378E+02
2.8000E-01	5.8774E-01	3.3078E+01	2.7515E+02	6.7529E+02	7.1200E+03	2.3947E+00	7.2325E+02
2.9000E-01	5.5878E-01	3.3078E+01	2.7435E+02	6.7458E+02	7.1200E+03	2.4086E+00	7.2277E+02
3.0000E-01	5.1893E-01	3.1359E+01	2.7356E+02	6.7389E+02	7.1200E+03	2.4217E+00	7.2223E+02
3.1000E-01	4.7028E-01	2.8607E+01	2.7277E+02	6.7321E+02	7.1200E+03	2.4339E+00	7.2170E+02
3.2000E-01	4.1480E-01	2.4642E+01	2.7200E+02	6.7256E+02	7.1200E+03	2.4454E+00	7.2123E+02
3.3000E-01	3.5359E-01	2.0892E+01	2.7124E+02	6.7193E+02	7.1200E+03	2.4561E+00	7.2071E+02
3.4000E-01	2.8703E-01	1.6741E+01	2.6979E+02	6.7132E+02	7.1200E+03	2.4661E+00	7.2021E+02
3.5000E-01	2.1688E-01	1.2525E+01	2.6808E+02	6.7073E+02	7.1200E+03	2.4755E+00	7.1978E+02
3.6000E-01	1.4388E-01	8.1013E+00	2.6640E+02	6.6965E+02	7.1200E+03	2.4841E+00	7.1931E+02
3.7000E-01	6.7986E-02	4.6774E+00	2.6477E+02	6.6914E+02	7.1200E+03	2.4921E+00	7.1886E+02
3.8000E-01	3.5788E-03	6.7083E-03	2.6311E+02	6.6868E+02	7.1200E+03	2.4985E+00	7.1843E+02
3.9000E-01	8.1058E-04	4.7473E+00	2.6150E+02	6.6821E+02	7.1200E+03	2.5055E+00	7.1807E+02
4.0000E-01	1.6744E-01	8.3455E+00	2.6000E+02	6.6779E+02	7.1200E+03	2.5128E+00	7.1767E+02
4.1000E-01	2.722E-01	1.3160E+01	2.6534E+02	6.6736E+02	7.1200E+03	2.5187E+00	7.1730E+02
4.2000E-01	3.2661E-01	1.7967E+01	2.6437E+02	6.6701E+02	7.1200E+03	2.5240E+00	7.1698E+02
4.3000E-01	4.0531E-01	2.1552E+01	2.6437E+02	6.6666E+02	7.1200E+03	2.5289E+00	7.1665E+02
4.4000E-01	4.8357E-01	2.6287E+01	2.6376E+02	6.6633E+02	7.1200E+03	2.5334E+00	7.1633E+02
4.5000E-01	5.6053E-01	3.0950E+01	2.6328E+02	6.6575E+02	7.1200E+03	2.5374E+00	7.1607E+02
4.6000E-01					7.1200E+03	2.5411E+00	7.1579E+02
						2.5444E+00	7.1553E+02

4. 7000E-01	6. 3595E-01	3. 5528E+01	2. 8283E+02	6. 6549E+02	7. 1200E+03	2. 5474E+00	7. 1528E+02
4. 8000E-01	7. 1002E-01	3. 8892E+01	2. 8239E+02	6. 6525E+02	7. 1200E+03	2. 5501E+00	7. 1509E+02
4. 9000E-01	7. 8237E-01	4. 3283E+01	2. 8197E+02	6. 6503E+02	7. 1200E+03	2. 5524E+00	7. 1488E+02
5. 0000E-01	8. 5273E-01	4. 7552E+01	2. 8157E+02	6. 6483E+02	7. 1200E+03	2. 5545E+00	7. 1468E+02
5. 1000E-01	9. 2113E-01	5. 0671E+01	2. 8120E+02	6. 6465E+02	7. 1200E+03	2. 5563E+00	7. 1453E+02
5. 2000E-01	9. 8763E-01	5. 4713E+01	2. 8084E+02	6. 6449E+02	7. 1200E+03	2. 5579E+00	7. 1436E+02
5. 3000E-01	1. 0519E+00	5. 8617E+01	2. 8050E+02	6. 6434E+02	7. 1200E+03	2. 5593E+00	7. 1422E+02
5. 4000E-01	1. 1140E+00	6. 2382E+01	2. 8018E+02	6. 6421E+02	7. 1200E+03	2. 5604E+00	7. 1406E+02
5. 5000E-01	1. 1740E+00	6. 5112E+01	2. 7987E+02	6. 6408E+02	7. 1200E+03	2. 5613E+00	7. 1397E+02
5. 6000E-01	1. 2318E+00	6. 8627E+01	2. 7956E+02	6. 6399E+02	7. 1200E+03	2. 5621E+00	7. 1386E+02
5. 7000E-01	1. 2874E+00	7. 1699E+01	2. 7931E+02	6. 6391E+02	7. 1200E+03	2. 5627E+00	7. 1376E+02
5. 8000E-01	1. 3409E+00	7. 4238E+01	2. 7905E+02	6. 6381E+02	7. 1200E+03	2. 5631E+00	7. 1369E+02
5. 9000E-01	1. 3921E+00	7. 7561E+01	2. 7881E+02	6. 6375E+02	7. 1200E+03	2. 5634E+00	7. 1361E+02
6. 0000E-01	1. 4413E+00	8. 0547E+01	2. 7858E+02	6. 6369E+02	7. 1200E+03	2. 5635E+00	7. 1354E+02
6. 1000E-01	1. 4883E+00	8. 2898E+01	2. 7837E+02	6. 6366E+02	7. 1200E+03	2. 5635E+00	7. 1348E+02
6. 2000E-01	1. 5334E+00	8. 5447E+01	2. 7817E+02	6. 6364E+02	7. 1200E+03	2. 5635E+00	7. 1343E+02
6. 3000E-01	1. 5768E+00	8. 8066E+01	2. 7798E+02	6. 6357E+02	7. 1200E+03	2. 5634E+00	7. 1339E+02
6. 4000E-01	1. 6175E+00	9. 0557E+01	2. 7780E+02	6. 6355E+02	7. 1200E+03	2. 5632E+00	7. 1335E+02
6. 5000E-01	1. 6567E+00	9. 2343E+01	2. 7763E+02	6. 6353E+02	7. 1200E+03	2. 5629E+00	7. 1332E+02
6. 6000E-01	1. 6940E+00	9. 4189E+01	2. 7747E+02	6. 6352E+02	7. 1200E+03	2. 5625E+00	7. 1330E+02
6. 7000E-01	1. 7296E+00	9. 6777E+01	2. 7731E+02	6. 6352E+02	7. 1200E+03	2. 5620E+00	7. 1328E+02
6. 8000E-01	1. 7634E+00	9. 8321E+01	2. 7718E+02	6. 6352E+02	7. 1200E+03	2. 5615E+00	7. 1326E+02
6. 9000E-01	1. 7955E+00	1. 0028E+02	2. 7706E+02	6. 6352E+02	7. 1200E+03	2. 5610E+00	7. 1325E+02
7. 0000E-01	1. 8260E+00	1. 0214E+02	2. 7694E+02	6. 6352E+02	7. 1200E+03	2. 5603E+00	7. 1325E+02
7. 1000E-01	1. 8549E+00	1. 0348E+02	2. 7683E+02	6. 6352E+02	7. 1200E+03	2. 5597E+00	7. 1325E+02
7. 2000E-01	1. 8824E+00	1. 0514E+02	2. 7673E+02	6. 6352E+02	7. 1200E+03	2. 5590E+00	7. 1325E+02
7. 3000E-01	1. 9083E+00	1. 0672E+02	2. 7664E+02	6. 6352E+02	7. 1200E+03	2. 5583E+00	7. 1325E+02
7. 4000E-01	1. 9329E+00	1. 0827E+02	2. 7655E+02	6. 6348E+02	7. 1200E+03	2. 5576E+00	7. 1325E+02
7. 5000E-01	1. 9561E+00	1. 0928E+02	2. 7646E+02	6. 6348E+02	7. 1200E+03	2. 5569E+00	7. 1325E+02
7. 6000E-01	1. 9781E+00	1. 1063E+02	2. 7637E+02	6. 6348E+02	7. 1200E+03	2. 5562E+00	7. 1325E+02
7. 7000E-01	1. 9988E+00	1. 1195E+02	2. 7628E+02	6. 6348E+02	7. 1200E+03	2. 5555E+00	7. 1325E+02
7. 8000E-01	2. 0183E+00	1. 1390E+02	2. 7620E+02	6. 6348E+02	7. 1200E+03	2. 5548E+00	7. 1325E+02
7. 9000E-01	2. 0375E+00	1. 1595E+02	2. 7611E+02	6. 6348E+02	7. 1200E+03	2. 5541E+00	7. 1325E+02
8. 0000E-01	2. 0541E+00	1. 1798E+02	2. 7602E+02	6. 6348E+02	7. 1200E+03	2. 5534E+00	7. 1325E+02
8. 1000E-01	2. 0784E+00	1. 1998E+02	2. 7593E+02	6. 6348E+02	7. 1200E+03	2. 5527E+00	7. 1325E+02
8. 2000E-01	2. 0856E+00	1. 1664E+02	2. 7584E+02	6. 6348E+02	7. 1200E+03	2. 5520E+00	7. 1325E+02
8. 3000E-01	2. 1000E+00	1. 1752E+02	2. 7575E+02	6. 6348E+02	7. 1200E+03	2. 5513E+00	7. 1325E+02
8. 4000E-01	2. 1135E+00	1. 1838E+02	2. 7566E+02	6. 6348E+02	7. 1200E+03	2. 5506E+00	7. 1325E+02
8. 5000E-01	2. 1281E+00	1. 1891E+02	2. 7557E+02	6. 6348E+02	7. 1200E+03	2. 5499E+00	7. 1325E+02
8. 6000E-01	2. 1379E+00	1. 1963E+02	2. 7548E+02	6. 6348E+02	7. 1200E+03	2. 5492E+00	7. 1325E+02
8. 7000E-01	2. 1499E+00	1. 2031E+02	2. 7539E+02	6. 6406E+02	7. 1200E+03	2. 5484E+00	7. 1345E+02
8. 8000E-01	2. 1698E+00	1. 2078E+02	2. 7530E+02	6. 6410E+02	7. 1200E+03	2. 5477E+00	7. 1350E+02
8. 9000E-01	2. 1778E+00	1. 2137E+02	2. 7521E+02	6. 6416E+02	7. 1200E+03	2. 5470E+00	7. 1352E+02
9. 0000E-01	2. 1778E+00	1. 2191E+02	2. 7512E+02	6. 6416E+02	7. 1200E+03	2. 5463E+00	7. 1357E+02
9. 1000E-01	2. 1861E+00	1. 2242E+02	2. 7503E+02	6. 6421E+02	7. 1200E+03	2. 5456E+00	7. 1360E+02
9. 2000E-01	2. 1939E+00	1. 2277E+02	2. 7494E+02	6. 6425E+02	7. 1200E+03	2. 5450E+00	7. 1363E+02
9. 3000E-01	2. 2010E+00	1. 2362E+02	2. 7485E+02	6. 6429E+02	7. 1200E+03	2. 5443E+00	7. 1365E+02
9. 4000E-01	2. 2077E+00	1. 2390E+02	2. 7476E+02	6. 6432E+02	7. 1200E+03	2. 5437E+00	7. 1367E+02
9. 5000E-01	2. 2138E+00	1. 2456E+02	2. 7467E+02	6. 6436E+02	7. 1200E+03	2. 5430E+00	7. 1370E+02
9. 6000E-01	2. 2195E+00	1. 2495E+02	2. 7458E+02	6. 6439E+02	7. 1200E+03	2. 5424E+00	7. 1372E+02
9. 7000E-01	2. 2247E+00	1. 2456E+02	2. 7449E+02	6. 6442E+02	7. 1200E+03	2. 5419E+00	7. 1375E+02
9. 8000E-01	2. 2295E+00	1. 2476E+02	2. 7440E+02	6. 6446E+02	7. 1200E+03	2. 5413E+00	7. 1377E+02
9. 9000E-01	2. 2339E+00	1. 2506E+02	2. 7431E+02	6. 6449E+02	7. 1200E+03	2. 5407E+00	7. 1380E+02
1. 0000E+00	2. 2378E+00	1. 2530E+02	2. 7422E+02	6. 6452E+02	7. 1200E+03	2. 5402E+00	7. 1382E+02
						2. 5397E+00	7. 1384E+02

Appendix #31.

ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
1. 0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1. 6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+06	2.5600E-10	7.4400E+01	1.7140E+00
1. 6280E+02	2.1569E-10	3.3566E+03	2.7800E+01	1.7760E-01	2.5500E-10	6.3283E-09	1.8500E-06
7. 4000E+00	2.4000E+00	3.6500E-08	2.0000E+01	5.5611E-01	1.7000E+08	6.2000E+01	5.6000E-01
4. 3280E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0. 0000E+00	8.0000E+01						
0. 0000E+00	5.0500E+00	-6.2364E-08	-6.8614E-04	-1.9526E-02	7.3092E-01	3.6351E+00	-3.5285E-08
1. 0000E-02	5.0500E+00	-4.3338E-06	-2.0025E-02	-2.0065E+00	7.2366E-01	2.3080E+00	-2.2484E-05
3. 0000E-02	5.0500E+00	-5.9658E-06	-3.4000E-02	-2.3729E+00	6.8461E-01	1.5270E+00	-2.8729E-05
4. 0000E-02	5.0500E+00	-7.2582E-06	-4.6650E-02	-2.5657E+00	6.5987E-01	1.0502E+00	-2.8263E-05
5. 0000E-02	5.0500E+00	-8.2522E-06	-5.7227E-02	-2.6654E+00	6.3361E-01	7.3342E-01	-2.5669E-05
6. 0000E-02	5.0500E+00	-9.0013E-06	-6.5660E-02	-2.7113E+00	6.0669E-01	5.0262E-01	-2.2635E-05
7. 0000E-02	5.0500E+00	-9.5445E-06	-7.2139E-02	-2.7228E+00	5.7949E-01	3.2210E-01	-1.9748E-05
8. 0000E-02	5.0500E+00	-9.9168E-06	-7.8921E-02	-2.7099E+00	5.5231E-01	1.7411E-01	-1.5740E-05
9. 0000E-02	5.0500E+00	-1.0147E-05	-8.0287E-02	-2.6787E+00	5.2536E-01	5.1626E-02	-1.4861E-05
1. 0000E-01	5.0500E+00	-1.0271E-05	-8.2409E-02	-2.6333E+00	4.9879E-01	-1.3536E-01	-1.1101E-05
1. 2000E-01	5.0500E+00	-1.0214E-05	-8.3549E-02	-2.5785E+00	4.7275E-01	-2.7201E-01	-9.5305E-06
1. 3000E-01	5.0500E+00	-1.0185E-05	-8.3861E-02	-2.5106E+00	4.4725E-01	-2.7415E-01	-8.1417E-06
1. 4000E-01	5.0500E+00	-9.9038E-06	-8.3489E-02	-2.4376E+00	4.2254E-01	-3.2489E-01	-6.9147E-06
1. 5000E-01	5.0500E+00	-9.6795E-06	-8.2557E-02	-2.3591E+00	3.9855E-01	-3.8637E-01	-5.8192E-06
1. 6000E-01	5.0500E+00	-9.4217E-06	-8.1170E-02	-2.2766E+00	3.7537E-01	-3.9978E-01	-4.8499E-06
1. 7000E-01	5.0500E+00	-9.1378E-06	-7.9415E-02	-2.1913E+00	3.5303E-01	-4.2619E-01	-3.9859E-06
1. 8000E-01	5.0500E+00	-8.8344E-06	-7.7370E-02	-2.1043E+00	3.3158E-01	-4.4654E-01	-3.2310E-06
1. 9000E-01	5.0500E+00	-8.5168E-06	-7.5095E-02	-2.0164E+00	3.1098E-01	-4.6167E-01	-2.5685E-06
2. 0000E-01	5.0500E+00	-8.1900E-06	-7.2658E-02	-1.9284E+00	2.9128E-01	-4.7234E-01	-1.9937E-06
2. 1000E-01	5.0500E+00	-7.8578E-06	-7.0092E-02	-1.8411E+00	2.7238E-01	-4.7919E-01	-1.4980E-06
2. 2000E-01	5.0500E+00	-7.5234E-06	-6.7436E-02	-1.7548E+00	2.5440E-01	-4.8281E-01	-1.0699E-06
2. 3000E-01	5.0500E+00	-7.1897E-06	-6.4733E-02	-1.6701E+00	2.3727E-01	-4.8369E-01	-7.0720E-07
2. 4000E-01	5.0500E+00	-6.8589E-06	-6.2008E-02	-1.5872E+00	2.2099E-01	-4.8369E-01	-3.9816E-07
2. 5000E-01	5.0500E+00	-6.5339E-06	-5.9280E-02	-1.5065E+00	2.0552E-01	-4.7890E-01	-1.3800E-07
2. 6000E-01	5.0500E+00	-6.2132E-06	-5.6574E-02	-1.4282E+00	1.9085E-01	-4.7391E-01	7.6095E-08
2. 7000E-01	5.0500E+00	-5.8971E-06	-5.3904E-02	-1.3523E+00	1.7695E-01	-4.6757E-01	2.5553E-07
2. 8000E-01	5.0500E+00	-5.5917E-06	-5.1282E-02	-1.2791E+00	1.6380E-01	-4.6012E-01	4.0552E-07
2. 9000E-01	5.0500E+00	-5.3024E-06	-4.8720E-02	-1.2086E+00	1.5136E-01	-4.5175E-01	5.2726E-07
3. 0000E-01	5.0500E+00	-5.0173E-06	-4.6224E-02	-1.1407E+00	1.3962E-01	-4.4263E-01	6.7462E-07
3. 1000E-01	5.0500E+00	-4.7422E-06	-4.3801E-02	-1.0756E+00	1.2854E-01	-4.3291E-01	6.9547E-07
3. 2000E-01	5.0500E+00	-4.4773E-06	-4.1456E-02	-1.0132E+00	1.1810E-01	-4.2371E-01	7.5400E-07
3. 3000E-01	5.0500E+00	-4.2272E-06	-3.9192E-02	-9.5346E-01	1.0825E-01	-4.154E-01	7.9715E-07
3. 4000E-01	5.0500E+00	-3.9784E-06	-3.7011E-02	-8.9637E-01	9.9017E-02	-4.0728E-01	8.3063E-07
3. 5000E-01	5.0500E+00	-3.7444E-06	-3.4913E-02	-8.4187E-01	9.0228E-02	-3.9023E-01	8.5468E-07
3. 6000E-01	5.0500E+00	-3.5205E-06	-3.2900E-02	-7.8980E-01	8.1722E-02	-3.7904E-01	8.7376E-07
3. 7000E-01	5.0500E+00	-3.3086E-06	-3.0971E-02	-7.4038E-01	7.4522E-02	-3.6777E-01	8.7376E-07
3. 8000E-01	5.0500E+00	-3.1028E-06	-2.9125E-02	-6.9326E-01	6.7566E-02	-3.5648E-01	8.7691E-07
3. 9000E-01	5.0500E+00	-2.9080E-06	-2.7361E-02	-6.4845E-01	6.0649E-02	-3.4520E-01	8.7205E-07
4. 0000E-01	5.0500E+00	-2.7228E-06	-2.5677E-02	-6.0587E-01	5.4380E-02	-3.3397E-01	8.6409E-07
4. 1000E-01	5.0500E+00	-2.5466E-06	-2.4071E-02	-5.6545E-01	4.8525E-02	-3.2283E-01	8.5454E-07
4. 2000E-01	5.0500E+00	-2.3791E-06	-2.2542E-02	-5.2711E-01	4.3064E-02	-3.1179E-01	8.4157E-07
4. 3000E-01	5.0500E+00	-2.2201E-06	-2.1087E-02	-4.9077E-01	3.7976E-02	-3.0090E-01	8.2537E-07
4. 4000E-01	5.0500E+00	-2.0692E-06	-1.9705E-02	-4.5636E-01	3.3242E-02	-2.9015E-01	8.0892E-07
4. 5000E+00	5.0500E+00	-1.9391E-02	-1.8391E-02	-4.2379E-01	2.8842E-02	-2.7958E-01	7.9203E-07

4.5000E-01	5.0500E+00	-1.9262E-08	-1.7145E-02	-3.8298E-01	2.4760E-02	-2.6919E-01	7.7169E-07
4.6000E-01	5.0500E+00	-1.7907E-08	-1.5982E-02	-3.6389E-01	2.0977E-02	-2.5901E-01	7.5182E-07
4.7000E-01	5.0500E+00	-1.6625E-08	-1.4844E-02	-3.4641E-01	1.7477E-02	-2.4903E-01	7.3235E-07
4.8000E-01	5.0500E+00	-1.5413E-08	-1.3784E-02	-3.1049E-01	1.4243E-02	-2.3927E-01	7.1128E-07
4.9000E-01	5.0500E+00	-1.4276E-08	-1.2782E-02	-2.8605E-01	1.1283E-02	-2.2974E-01	6.9005E-07
5.0000E-01	5.0500E+00	-1.3185E-08	-1.1835E-02	-2.6303E-01	8.5177E-03	-2.2044E-01	6.6955E-07
5.1000E-01	5.0500E+00	-1.2165E-08	-1.0941E-02	-2.4136E-01	5.9968E-03	-2.1138E-01	6.4890E-07
5.2000E-01	5.0500E+00	-1.1203E-08	-1.0097E-02	-2.2099E-01	3.6861E-03	-2.0256E-01	6.2756E-07
5.3000E-01	5.0500E+00	-1.0293E-08	-9.3017E-03	-2.0184E-01	1.5730E-03	-1.9398E-01	6.0703E-07
5.4000E-01	5.0500E+00	-9.4448E-07	-8.5523E-03	-1.8370E-01	-3.5460E-04	-1.8564E-01	5.8719E-07
5.5000E-01	5.0500E+00	-7.8894E-07	-7.1836E-03	-1.6701E-01	-2.1081E-04	-1.7755E-01	5.6855E-07
5.6000E-01	5.0500E+00	-7.1824E-07	-6.5603E-03	-1.5121E-01	-3.6983E-03	-1.6970E-01	5.4666E-07
5.7000E-01	5.0500E+00	-6.5193E-07	-5.9752E-03	-1.3642E-01	-5.1356E-03	-1.6210E-01	5.2748E-07
5.8000E-01	5.0500E+00	-5.8981E-07	-5.4264E-03	-1.2259E-01	-6.4799E-03	-1.5474E-01	5.0832E-07
5.9000E-01	5.0500E+00	-5.3167E-07	-4.9121E-03	-1.0987E-01	-7.5604E-03	-1.4762E-01	4.8943E-07
6.0000E-01	5.0500E+00	-4.7731E-07	-4.4307E-03	-9.7606E-02	-8.6261E-03	-1.4074E-01	4.7125E-07
6.1000E-01	5.0500E+00	-4.2653E-07	-3.9804E-03	-8.6364E-02	-9.5452E-03	-1.3409E-01	4.5353E-07
6.2000E-01	5.0500E+00	-3.7915E-07	-3.5598E-03	-7.5898E-02	-1.0356E-02	-1.2768E-01	4.3587E-07
6.3000E-01	5.0500E+00	-3.3500E+00	-3.1673E-03	-6.6185E-02	-1.1066E-02	-1.2149E-01	4.1880E-07
6.4000E-01	5.0500E+00	-2.9390E-07	-2.8015E-03	-5.7186E-02	-1.1682E-02	-1.1553E-01	4.0247E-07
6.5000E+00	5.0500E+00	-2.5570E-07	-2.4809E-03	-4.8745E-02	-1.2210E-02	-1.0980E-01	3.8624E-07
6.6000E-01	5.0500E+00	-2.2033E-07	-2.1442E-03	-4.0983E-02	-1.2659E-02	-1.0428E-01	3.7053E-07
6.7000E-01	5.0500E+00	-1.8735E-07	-1.8502E-03	-3.3807E-02	-1.3032E-02	-9.8987E-02	3.5537E-07
6.8000E-01	5.0500E+00	-1.5691E-07	-1.5974E-03	-2.7184E-02	-1.3336E-02	-9.3867E-02	3.4059E-07
6.9000E-01	5.0500E+00	-1.2878E-07	-1.3749E-03	-2.1082E-02	-1.3577E-02	-8.8969E-02	3.2622E-07
7.0000E-01	5.0500E+00	-1.0263E-07	-1.0919E-03	-1.5470E-02	-1.3760E-02	-8.4269E-02	3.1234E-07
7.1000E-01	5.0500E+00	-7.8439E-08	-8.7608E-04	-1.0321E-02	-1.3868E-02	-7.9762E-02	2.9890E-07
7.2000E-01	5.0500E+00	-5.8960E-08	-6.7782E-04	-5.6055E-03	-1.3988E-02	-7.5444E-02	2.8585E-07
7.3000E-01	5.0500E+00	-4.6808E-08	-4.9515E-04	-1.2895E-03	-1.4002E-02	-7.1308E-02	2.7335E-07
7.4000E-01	5.0500E+00	-3.6376E-08	-3.2772E-04	-2.6251E-03	-1.3995E-02	-6.7349E-02	2.6106E-07
7.5000E-01	5.0500E+00	-1.5315E-08	-1.7444E-04	9.4165E-03	-1.3951E-02	-6.3563E-02	2.4928E-07
7.6000E-01	5.0500E+00	1.3796E-08	3.4451E-05	1.4945E-02	-1.3877E-02	-5.9945E-02	2.3793E-07
7.7000E-01	5.0500E+00	2.7099E-08	3.3059E-05	1.2328E-02	-1.3627E-02	-5.6488E-02	2.2694E-07
7.8000E-01	5.0500E+00	4.0297E-08	2.0886E-04	1.7286E-02	-1.3455E-02	-5.0040E-02	2.1634E-07
7.9000E-01	5.0500E+00	5.1645E-08	3.1370E-04	1.9370E-02	-1.3295E-02	-4.7039E-02	2.0618E-07
8.0000E-01	5.0500E+00	6.1833E-08	4.0826E-04	2.1213E-02	-1.3075E-02	-4.4180E-02	1.9635E-07
8.1000E-01	5.0500E+00	7.0932E-08	4.9323E-04	2.2834E-02	-1.2850E-02	-4.1457E-02	1.8682E-07
8.2000E-01	5.0500E+00	8.6184E-08	5.6921E-04	2.4247E-02	-1.2623E-02	-3.8867E-02	1.7778E-07
8.3000E-01	5.0500E+00	9.6184E-08	6.3683E-04	2.5467E-02	-1.2374E-02	-3.6403E-02	1.6905E-07
8.4000E-01	5.0500E+00	9.2459E-08	6.9664E-04	2.6508E-02	-1.2114E-02	-3.4062E-02	1.6058E-07
8.5000E-01	5.0500E+00	9.7918E-08	7.4918E-04	2.7383E-02	-1.1844E-02	-3.1839E-02	1.5250E-07
8.6000E-01	5.0500E+00	1.0262E-07	7.9498E-04	2.8105E-02	-1.1587E-02	-2.9729E-02	1.4478E-07
8.7000E-01	5.0500E+00	1.0682E-07	8.3447E-04	2.8686E-02	-1.1283E-02	-2.7727E-02	1.3731E-07
8.8000E-01	5.0500E+00	1.0997E-07	8.6815E-04	2.9137E-02	-1.0993E-02	-2.5831E-02	1.3010E-07
8.9000E-01	5.0500E+00	1.1273E-07	8.9645E-04	2.9468E-02	-1.0700E-02	-2.4034E-02	1.2333E-07
9.0000E-01	5.0500E+00	1.1492E-07	9.1977E-04	2.9689E-02	-1.0405E-02	-2.2334E-02	1.1677E-07
9.1000E-01	5.0500E+00	1.1661E-07	9.3849E-04	2.9809E-02	-1.0107E-02	-2.0726E-02	1.1041E-07
9.2000E-01	5.0500E+00	1.1783E-07	9.5297E-04	2.9937E-02	-9.8086E-03	-1.9206E-02	1.0445E-07
9.3000E-01	5.0500E+00	1.1862E-07	9.6356E-04	2.9782E-02	-9.5105E-03	-1.7711E-02	9.8728E-08
9.4000E-01	5.0500E+00	1.1901E-07	9.7037E-04	2.9650E-02	-9.2133E-03	-1.6416E-02	9.3180E-08
9.5000E-01	5.0500E+00	1.1855E-07	9.7431E-04	2.9450E-02	-8.9177E-03	-1.5139E-02	8.7914E-08
9.6000E-01	5.0500E+00	1.1755E-07	9.7507E-04	2.9187E-02	-8.6245E-03	-1.3935E-02	8.2954E-08
9.7000E-01	5.0500E+00	1.1616E-07	9.7310E-04	2.8869E-02	-8.3341E-03	-1.2802E-02	7.8146E-08
9.8000E-01	5.0500E+00	1.1731E-07	9.6866E-04	2.8500E-02	-8.0473E-03	-1.1736E-02	7.3500E-08
1.0000E+00	5.0500E+00	1.1621E-07	9.6198E-04	2.8087E-02	-7.7643E-03	-1.0734E-02	6.5089E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
0.0000E+00	1.6813E-09	6.4300E-07	6.0500E+01	1.0000E+08	0.0000E+00	5.0000E+00	3.1000E+02
1.0000E-02	1.6044E-09	6.1673E-07	2.6378E-02	4.5213E+00	7.3607E+02	7.1549E+01	8.6440E+03
2.0000E-02	1.4491E-09	6.2844E-07	2.6222E-02	4.9520E+00	7.2616E+02	4.1545E+01	8.1875E+03
3.0000E-02	1.2782E-09	6.4134E-07	2.8049E-02	4.9517E+00	7.2442E+02	2.3050E+01	7.0891E+03
4.0000E-02	1.1186E-09	6.4143E-07	2.8053E-02	4.4784E+00	7.2853E+02	1.5673E+01	5.9107E+03
5.0000E-02	9.7609E-10	6.3325E-07	2.8113E-02	4.4833E+00	7.2992E+02	1.1051E+01	4.8563E+03
6.0000E-02	8.5118E-10	6.2174E-07	2.8073E-02	4.4689E+00	7.2800E+02	7.7650E+00	3.9486E+03
7.0000E-02	7.4249E-10	6.1001E-07	2.5843E-02	4.4363E+00	7.2252E+02	4.3425E+00	3.1708E+03
8.0000E-02	6.4810E-10	6.0059E-07	2.5606E-02	4.3942E+00	7.1693E+02	3.0019E+00	2.5006E+03
9.0000E-02	5.6521E-10	5.9281E-07	2.5340E-02	4.3451E+00	7.0857E+02	1.3445E-02	1.9164E+03
1.0000E-01	4.9671E-10	5.8672E-07	2.5073E-02	4.2972E+00	7.0013E+02	-2.7387E+00	1.4090E+03
1.0000E-01	4.3522E-10	5.8317E-07	2.4823E-02	4.2522E+00	6.9231E+02	-5.0956E+00	9.6824E+02
1.2000E-01	3.8944E-10	5.8094E-07	2.4601E-02	4.2140E+00	6.8712E+02	-5.4376E+00	5.8224E+02
1.3000E-01	3.3680E-10	5.7983E-07	2.4413E-02	4.1816E+00	6.8121E+02	-7.2210E+00	2.4832E+02
1.4000E-01	3.0131E-10	5.7938E-07	2.4263E-02	4.1554E+00	6.7661E+02	-8.5773E+00	-3.8388E+01
1.5000E-01	2.6991E-10	5.7987E-07	2.4147E-02	4.1218E+00	6.7292E+02	-8.8004E+00	-2.8392E+02
1.6000E-01	2.4391E-10	5.8069E-07	2.4063E-02	4.1126E+00	6.7128E+02	-9.7125E+00	-4.9219E+02
1.7000E-01	2.2267E-10	5.8182E-07	2.4008E-02	4.1076E+00	6.6960E+02	-1.0310E+01	-6.6613E+02
1.8000E-01	2.0561E-10	5.8321E-07	2.3977E-02	4.1042E+00	6.6897E+02	-1.0500E+01	-8.0990E+02
1.9000E-01	1.9219E-10	5.8468E-07	2.3968E-02	4.1074E+00	6.6848E+02	-1.0803E+01	-9.2717E+02
2.0000E-01	1.8193E-10	5.8626E-07	2.3972E-02	4.1102E+00	6.6808E+02	-1.0914E+01	-1.0208E+03
2.0000E-01	1.7439E-10	5.8782E-07	2.3991E-02	4.1162E+00	6.6926E+02	-1.0880E+01	-1.0939E+03
2.0000E-01	1.6918E-10	5.8935E-07	2.4020E-02	4.1227E+00	6.7105E+02	-1.0999E+01	-1.1491E+03
2.0000E-01	1.6595E-10	5.9093E-07	2.4057E-02	4.1303E+00	6.7236E+02	-1.0833E+01	-1.1899E+03
2.0000E-01	1.6439E-10	5.9248E-07	2.4100E-02	4.1385E+00	6.7343E+02	-1.0593E+01	-1.2159E+03
2.0000E-01	1.6422E-10	5.9388E-07	2.4142E-02	4.1470E+00	6.7494E+02	-1.0670E+01	-1.2317E+03
2.0000E-01	1.6522E-10	5.9531E-07	2.4197E-02	4.1559E+00	6.7650E+02	-1.0361E+01	-1.2378E+03
2.0000E-01	1.6718E-10	5.9676E-07	2.4260E-02	4.1651E+00	6.7808E+02	-1.0019E+01	-1.2363E+03
2.0000E-01	1.6993E-10	5.9797E-07	2.4300E-02	4.1739E+00	6.7928E+02	-9.6587E+00	-1.2267E+03
3.0000E-01	1.7311E-10	5.9919E-07	2.4352E-02	4.1827E+00	6.8082E+02	-9.6806E+00	-1.2149E+03
3.0000E-01	1.7719E-10	6.0043E-07	2.4403E-02	4.1915E+00	6.8235E+02	-9.2992E+00	-1.1970E+03
3.0000E-01	1.8147E-10	6.0153E-07	2.4454E-02	4.1999E+00	6.8346E+02	-8.9167E+00	-1.1759E+03
3.0000E-01	1.8605E-10	6.0253E-07	2.4503E-02	4.2080E+00	6.8490E+02	-8.5003E+00	-1.1517E+03
3.0000E-01	1.9087E-10	6.0355E-07	2.4550E-02	4.2159E+00	6.8629E+02	-8.1384E+00	-1.0970E+03
3.0000E-01	1.9584E-10	6.0454E-07	2.4598E-02	4.2234E+00	6.8728E+02	-8.0942E+00	-1.0678E+03
3.0000E-01	2.0092E-10	6.0534E-07	2.4639E-02	4.2304E+00	6.8855E+02	-7.7213E+00	-1.0372E+03
3.0000E-01	2.0608E-10	6.0616E-07	2.4681E-02	4.2372E+00	6.8974E+02	-7.3618E+00	-1.0062E+03
3.0000E-01	2.1122E-10	6.0698E-07	2.4720E-02	4.2437E+00	6.9087E+02	-7.0167E+00	-9.7511E+02
3.0000E-01	2.1638E-10	6.0765E-07	2.4758E-02	4.2497E+00	6.9188E+02	-6.6943E+00	-9.4348E+02
3.0000E-01	2.2151E-10	6.0830E-07	2.4793E-02	4.2554E+00	6.9269E+02	-6.6097E+00	-9.1197E+02
4.0000E-01	2.2658E-10	6.0894E-07	2.4828E-02	4.2608E+00	6.9363E+02	-6.2912E+00	-8.8083E+02
4.0000E-01	2.3158E-10	6.0957E-07	2.4858E-02	4.2658E+00	6.9429E+02	-6.2008E+00	-8.4988E+02
4.0000E-01	2.3650E-10	6.1001E-07	2.4887E-02	4.2704E+00	6.9513E+02	-5.8954E+00	-8.1918E+02
4.0000E-01	2.4133E-10	6.1051E-07	2.4914E-02	4.2748E+00	6.9590E+02	-5.6053E+00	-7.8912E+02
4.0000E-01	2.4605E-10	6.1100E-07	2.4939E-02	4.2789E+00	6.9644E+02	-5.5028E+00	-7.5970E+02
4.0000E-01	2.5066E-10	6.1147E-07	2.4963E-02	4.2826E+00	6.9711E+02	-5.2265E+00	-7.3058E+02
4.0000E-01	2.5516E-10	6.1174E-07	2.4985E-02	4.2860E+00	6.9773E+02	-4.9648E+00	-7.0222E+02



4. 7000E-01	2. 5953E-10	6. 1212E-07	2. 5005E-02	4. 2893E+00	6. 9829E+02	-4. 7170E+00	-6. 7464E+02
4. 8000E-01	2. 6379E-10	6. 1242E-07	2. 5024E-02	4. 2923E+00	6. 9869E+02	-4. 6071E+00	-6. 4759E+02
4. 9000E-01	2. 6793E-10	6. 1270E-07	2. 5042E-02	4. 2952E+00	6. 9917E+02	-4. 3727E+00	-6. 2125E+02
5. 0000E-01	2. 7194E-10	6. 1297E-07	2. 5058E-02	4. 2980E+00	6. 9962E+02	-4. 1511E+00	-5. 9572E+02
5. 1000E-01	2. 7593E-10	6. 1321E-07	2. 5072E-02	4. 2995E+00	6. 9992E+02	-4. 0385E+00	-5. 7090E+02
5. 2000E-01	2. 7959E-10	6. 1341E-07	2. 5086E-02	4. 3019E+00	7. 0030E+02	-3. 8299E+00	-5. 4671E+02
5. 3000E-01	2. 8374E-10	6. 1361E-07	2. 5098E-02	4. 3038E+00	7. 0064E+02	-3. 6330E+00	-5. 2333E+02
5. 4000E-01	2. 8746E-10	6. 1380E-07	2. 5109E-02	4. 3056E+00	7. 0094E+02	-3. 4471E+00	-5. 0077E+02
5. 5000E-01	2. 9016E-10	6. 1394E-07	2. 5119E-02	4. 3071E+00	7. 0115E+02	-3. 3367E+00	-4. 7871E+02
5. 6000E-01	2. 9344E-10	6. 1407E-07	2. 5129E-02	4. 3085E+00	7. 0141E+02	-3. 1621E+00	-4. 5746E+02
5. 7000E-01	2. 9661E-10	6. 1420E-07	2. 5137E-02	4. 3098E+00	7. 0163E+02	-2. 9978E+00	-4. 3696E+02
5. 8000E-01	2. 9957E-10	6. 1430E-07	2. 5144E-02	4. 3110E+00	7. 0195E+02	-2. 8901E+00	-4. 1712E+02
5. 9000E-01	3. 0251E-10	6. 1439E-07	2. 5151E-02	4. 3120E+00	7. 0197E+02	-2. 7370E+00	-3. 9795E+02
6. 0000E-01	3. 0545E-10	6. 1447E-07	2. 5157E-02	4. 3129E+00	7. 0213E+02	-2. 5926E+00	-3. 7949E+02
6. 1000E-01	3. 0817E-10	6. 1455E-07	2. 5162E-02	4. 3137E+00	7. 0224E+02	-2. 4895E+00	-3. 6169E+02
6. 2000E-01	3. 1080E-10	6. 1462E-07	2. 5167E-02	4. 3144E+00	7. 0236E+02	-2. 3556E+00	-3. 4505E+02
6. 3000E-01	3. 1322E-10	6. 1468E-07	2. 5171E-02	4. 3150E+00	7. 0247E+02	-2. 2293E+00	-3. 2797E+02
6. 4000E-01	3. 1574E-10	6. 1471E-07	2. 5175E-02	4. 3155E+00	7. 0256E+02	-2. 1044E+00	-3. 1208E+02
6. 5000E-01	3. 1807E-10	6. 1473E-07	2. 5178E-02	4. 3159E+00	7. 0262E+02	-1. 9056E+00	-2. 9676E+02
6. 6000E-01	3. 2030E-10	6. 1474E-07	2. 5180E-02	4. 3163E+00	7. 0269E+02	-1. 7229E+00	-2. 8204E+02
6. 7000E-01	3. 2244E-10	6. 1474E-07	2. 5182E-02	4. 3166E+00	7. 0275E+02	-1. 5675E+00	-2. 6791E+02
6. 8000E-01	3. 2449E-10	6. 1475E-07	2. 5184E-02	4. 3168E+00	7. 0279E+02	-1. 4388E+00	-2. 5434E+02
6. 9000E-01	3. 2646E-10	6. 1475E-07	2. 5186E-02	4. 3170E+00	7. 0281E+02	-1. 3399E+00	-2. 4131E+02
7. 0000E-01	3. 2834E-10	6. 1475E-07	2. 5187E-02	4. 3172E+00	7. 0283E+02	-1. 2694E+00	-2. 2881E+02
7. 1000E-01	3. 3015E-10	6. 1474E-07	2. 5187E-02	4. 3172E+00	7. 0285E+02	-1. 2283E+00	-2. 1683E+02
7. 2000E-01	3. 3187E-10	6. 1473E-07	2. 5188E-02	4. 3173E+00	7. 0285E+02	-1. 2093E+00	-2. 0535E+02
7. 3000E-01	3. 3352E-10	6. 1471E-07	2. 5188E-02	4. 3173E+00	7. 0285E+02	-1. 2169E+00	-1. 9436E+02
7. 4000E-01	3. 3510E-10	6. 1469E-07	2. 5188E-02	4. 3172E+00	7. 0285E+02	-1. 2491E+00	-1. 8384E+02
7. 5000E-01	3. 3660E-10	6. 1466E-07	2. 5188E-02	4. 3172E+00	7. 0284E+02	-1. 3499E+00	-1. 7377E+02
7. 6000E-01	3. 3804E-10	6. 1464E-07	2. 5188E-02	4. 3171E+00	7. 0284E+02	-1. 4499E+00	-1. 6415E+02
7. 7000E-01	3. 4072E-10	6. 1461E-07	2. 5187E-02	4. 3169E+00	7. 0280E+02	-1. 5173E+00	-1. 5495E+02
7. 8000E-01	3. 4165E-10	6. 1459E-07	2. 5186E-02	4. 3168E+00	7. 0279E+02	-1. 0791E+00	-1. 4616E+02
7. 9000E-01	3. 4358E-10	6. 1454E-07	2. 5185E-02	4. 3166E+00	7. 0275E+02	-9. 5217E-01	-1. 3778E+02
8. 000E-01	3. 4528E-10	6. 1451E-07	2. 5185E-02	4. 3164E+00	7. 0272E+02	-8. 9620E-01	-1. 2978E+02
8. 1000E-01	3. 4728E-10	6. 1447E-07	2. 5184E-02	4. 3162E+00	7. 0268E+02	-8. 4367E-01	-1. 2215E+02
8. 2000E-01	3. 4938E-10	6. 1444E-07	2. 5183E-02	4. 3160E+00	7. 0266E+02	-7. 9366E-01	-1. 1488E+02
8. 3000E-01	3. 5188E-10	6. 1440E-07	2. 5182E-02	4. 3158E+00	7. 0262E+02	-7. 3796E-01	-1. 0798E+02
8. 4000E-01	3. 4735E-10	6. 1436E-07	2. 5181E-02	4. 3156E+00	7. 0257E+02	-6. 9361E-01	-1. 0137E+02
8. 5000E-01	3. 4828E-10	6. 1432E-07	2. 5178E-02	4. 3153E+00	7. 0254E+02	-6. 5203E-01	-9. 5086E+01
8. 6000E-01	3. 4915E-10	6. 1428E-07	2. 5177E-02	4. 3151E+00	7. 0250E+02	-6. 0186E-01	-8. 5086E+01
8. 7000E-01	3. 4999E-10	6. 1424E-07	2. 5175E-02	4. 3148E+00	7. 0245E+02	-5. 6468E-01	-8. 5143E+01
8. 8000E-01	3. 5077E-10	6. 1420E-07	2. 5174E-02	4. 3145E+00	7. 0245E+02	-5. 2986E-01	-8. 3475E+01
8. 9000E-01	3. 5152E-10	6. 1416E-07	2. 5172E-02	4. 3143E+00	7. 0237E+02	-4. 8552E-01	-7. 8088E+01
9. 0000E-01	3. 5223E-10	6. 1412E-07	2. 5171E-02	4. 3140E+00	7. 0235E+02	-4. 5459E-01	-7. 2992E+01
9. 1000E-01	3. 5290E-10	6. 1408E-07	2. 5169E-02	4. 3137E+00	7. 0227E+02	-4. 2565E-01	-6. 8149E+01
9. 2000E-01	3. 5353E-10	6. 1404E-07	2. 5168E-02	4. 3135E+00	7. 0222E+02	-3. 9858E-01	-6. 3548E+01
9. 3000E-01	3. 5413E-10	6. 1401E-07	2. 5166E-02	4. 3132E+00	7. 0222E+02	-3. 6118E-01	-5. 9206E+01
9. 4000E-01	3. 5470E-10	6. 1397E-07	2. 5164E-02	4. 3129E+00	7. 0219E+02	-3. 3734E-01	-5. 5092E+01
9. 5000E-01	3. 5523E-10	6. 1393E-07	2. 5163E-02	4. 3126E+00	7. 0214E+02	-3. 1507E-01	-5. 1190E+01
9. 6000E-01	3. 5574E-10	6. 1390E-07	2. 5161E-02	4. 3124E+00	7. 0211E+02	-2. 8248E-01	-4. 7506E+01
9. 7000E-01	3. 5621E-10	6. 1386E-07	2. 5160E-02	4. 3121E+00	7. 0206E+02	-2. 6302E-01	-4. 4032E+01
9. 8000E-01	3. 5666E-10	6. 1382E-07	2. 5160E-02	4. 3118E+00	7. 0202E+02	-2. 4488E-01	-4. 0744E+01
9. 9000E-01	3. 5708E-10	6. 1375E-07	2. 5158E-02	4. 3116E+00	7. 0198E+02	-2. 1666E-01	-3. 7634E+01
1. 0000E+00	3. 5748E-10	6. 1375E-07	2. 5155E-02	4. 3114E+00	7. 0194E+02	-2. 0095E-01	-3. 4721E+01
						-1. 8633E-01	-3. 1966E+01

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
0.0000E+00	1.9748E-01	4.0410E+01	1.0074E-05	1.0000E+01	3.1804E-08	3.7837E-08	1.0896E-06
1.0000E-02	1.1991E+02	4.1648E+01	1.0087E-05	1.0000E+01	4.4895E-07	3.7861E-06	-6.6630E-07
2.0000E-02	1.0358E+02	4.2770E+01	1.0121E-05	1.0000E+01	3.0248E-07	3.8005E-06	-2.8689E-06
3.0000E-02	8.5877E+01	4.3716E+01	1.0170E-05	1.0000E+01	-1.6599E-07	3.8013E-06	-4.5856E-06
4.0000E-02	8.9909E+01	4.4493E+01	1.0232E-05	1.0000E+01	-4.8607E-07	3.7880E-06	-5.5485E-06
5.0000E-02	5.6157E+01	4.5122E+01	1.0301E-05	1.0000E+01	-5.6192E-07	3.7928E-06	-5.8218E-06
6.0000E-02	4.4470E+01	4.5623E+01	1.0376E-05	1.0000E+01	-4.4450E-07	3.7875E-06	-5.5198E-06
7.0000E-02	3.4566E+01	4.6017E+01	1.0453E-05	1.0000E+01	-2.9791E-07	3.7838E-06	-4.9387E-06
8.0000E-02	2.6119E+01	4.6319E+01	1.0531E-05	1.0000E+01	1.7382E-08	3.7844E-06	-4.0493E-06
9.0000E-02	1.8958E+01	4.6544E+01	1.0608E-05	1.0000E+01	3.4157E-07	3.7827E-06	-3.0671E-06
1.0000E-01	1.2883E+01	4.6702E+01	1.0685E-05	1.0000E+01	6.5342E-07	3.7891E-06	-2.0845E-06
1.2000E-01	7.6762E+00	4.6804E+01	1.0759E-05	1.0000E+01	8.4061E-07	3.7891E-06	-1.2410E-06
1.4000E-01	4.9594E+00	4.6858E+01	1.0822E-05	1.0000E+01	1.0745E-06	3.7865E-06	-3.9509E-07
1.6000E-01	3.6863E+00	4.6872E+01	1.0886E-05	1.0000E+01	1.2539E-06	3.8062E-06	-3.4559E-07
1.8000E-01	2.8312E+00	4.6850E+01	1.0945E-05	1.0000E+01	1.3411E-06	3.8178E-06	9.3966E-07
2.0000E-01	2.1536E+00	4.6744E+01	1.1000E-05	1.0000E+01	1.4335E-06	3.8308E-06	8.8448E-06
2.2000E-01	1.6315E+00	4.6628E+01	1.1049E-05	1.0000E+01	1.4837E-06	3.8408E-06	1.9243E-06
2.4000E-01	1.2064E+00	4.6515E+01	1.1093E-05	1.0000E+01	1.4908E-06	3.8743E-06	2.2771E-06
2.6000E-01	1.3324E+00	4.6388E+01	1.1132E-05	1.0000E+01	1.4850E-06	3.8892E-06	2.5710E-06
2.8000E-01	1.5123E+00	4.6249E+01	1.1166E-05	1.0000E+01	1.4559E-06	3.8039E-06	2.8016E-06
3.0000E-01	1.5721E+00	4.6102E+01	1.1221E-05	1.0000E+01	1.4087E-06	3.9163E-06	2.9794E-06
3.2000E-01	1.6597E+00	4.5947E+01	1.1278E-05	1.0000E+01	1.3618E-06	3.9422E-06	3.1251E-06
3.4000E-01	1.8456E+00	4.5788E+01	1.1269E-05	1.0000E+01	1.2948E-06	3.9454E-06	3.2235E-06
3.6000E-01	2.0684E+00	4.5625E+01	1.1278E-05	1.0000E+01	1.2208E-06	3.8580E-06	3.2907E-06
3.8000E-01	2.3242E+00	4.5459E+01	1.1282E-05	1.0000E+01	1.0820E-06	3.8811E-06	3.3508E-06
4.0000E-01	2.6084E+00	4.525E+01	1.1284E-05	1.0000E+01	1.0011E-06	3.9815E-06	3.3747E-06
4.2000E-01	2.8588E+00	4.5125E+01	1.1284E-05	1.0000E+01	9.2052E-07	4.0012E-06	3.3631E-06
4.4000E-01	3.0832E+00	4.4959E+01	1.1278E-05	1.0000E+01	8.6184E-07	4.0101E-06	3.3598E-06
4.6000E-01	3.2828E+00	4.4794E+01	1.1278E-05	1.0000E+01	7.8441E-07	4.0184E-06	3.3263E-06
4.8000E-01	3.4576E+00	4.4631E+01	1.1271E-05	1.0000E+01	7.0945E-07	4.0259E-06	3.2850E-06
5.0000E-01	3.6096E+00	4.4470E+01	1.1261E-05	1.0000E+01	6.5658E-07	4.0327E-06	3.2564E-06
5.2000E-01	3.7372E+00	4.4311E+01	1.1248E-05	1.0000E+01	5.8730E-07	4.0389E-06	3.1463E-06
5.4000E-01	3.8356E+00	4.4156E+01	1.1236E-05	1.0000E+01	5.2142E-07	4.0444E-06	3.1035E-06
5.6000E-01	3.9044E+00	4.4004E+01	1.1220E-05	1.0000E+01	4.7597E-07	4.0494E-06	3.0410E-06
5.8000E-01	3.959E+00	4.3853E+01	1.1203E-05	1.0000E+01	4.3608E-07	4.0538E-06	2.9771E-06
6.0000E-01	3.9917E+00	4.3710E+01	1.1185E-05	1.0000E+01	3.6087E-07	4.0577E-06	2.9125E-06
6.2000E-01	3.9522E+00	4.3562E+01	1.1165E-05	1.0000E+01	2.7383E-07	4.0611E-06	2.8617E-06
6.4000E-01	3.9123E+00	4.3432E+01	1.1145E-05	1.0000E+01	2.2805E-07	4.0640E-06	2.7963E-06
6.6000E-01	3.8724E+00	4.3299E+01	1.1123E-05	1.0000E+01	1.6565E-07	4.0665E-06	2.7315E-06
6.8000E-01	3.8323E+00	4.3170E+01	1.1100E-05	1.0000E+01	1.5771E-07	4.0686E-06	2.6791E-06
7.0000E-01	3.7920E+00	4.3044E+01	1.1077E-05	1.0000E+01	1.2104E-07	4.0703E-06	2.6155E-06
7.2000E-01	3.7522E+00	4.2923E+01	1.1054E-05	1.0000E+01	8.7391E-08	4.0717E-06	2.5531E-06
7.4000E-01	3.7122E+00	4.2806E+01	1.1030E-05	1.0000E+01	6.5612E-08	4.0735E-06	2.5015E-06
7.6000E-01	3.6724E+00	4.2693E+01	1.1005E-05	1.0000E+01	4.7369E-08	4.0740E-06	2.4415E-06
7.8000E-01	3.6326E+00	4.2583E+01	1.0980E-05	1.0000E+01	3.6945E-08	4.0740E-06	2.3831E-06
8.0000E-01	3.5928E+00	4.2478E+01	1.0956E-05	1.0000E+01	1.0878E-08	4.0742E-06	

4.7000E-01	4.2376E+01	1.0931E-05	1.0000E+01	-1.2735E-08	4.0742E-06	2.3283E-06
4.8000E-01	4.2279E+01	1.0906E-05	1.0000E+01	-2.7441E-08	4.0740E-06	2.2783E-06
4.9000E-01	4.2184E+01	1.0881E-05	1.0000E+01	-4.7088E-08	4.0736E-06	2.2283E-06
5.0000E-01	4.2094E+01	1.0856E-05	1.0000E+01	-6.4684E-08	4.0731E-06	2.1783E-06
5.1000E-01	4.2007E+01	1.0832E-05	1.0000E+01	-8.5280E-08	4.0724E-06	2.1283E-06
5.2000E-01	4.1923E+01	1.0807E-05	1.0000E+01	-8.9600E-08	4.0715E-06	2.0783E-06
5.3000E-01	4.1843E+01	1.0783E-05	1.0000E+01	-1.0224E-07	4.0706E-06	2.0283E-06
5.4000E-01	4.1766E+01	1.0760E-05	1.0000E+01	-1.1331E-07	4.0695E-06	1.9771E-06
5.5000E-01	4.1693E+01	1.0736E-05	1.0000E+01	-1.1945E-07	4.0683E-06	1.9474E-06
5.6000E-01	4.1622E+01	1.0713E-05	1.0000E+01	-1.2806E-07	4.0671E-06	1.9054E-06
5.7000E-01	4.1555E+01	1.0691E-05	1.0000E+01	-1.3540E-07	4.0658E-06	1.8651E-06
5.8000E-01	4.1490E+01	1.0669E-05	1.0000E+01	-1.3908E-07	4.0644E-06	1.8292E-06
5.9000E-01	4.1428E+01	1.0647E-05	1.0000E+01	-1.4447E-07	4.0630E-06	1.7920E-06
6.0000E-01	4.1369E+01	1.0626E-05	1.0000E+01	-1.4885E-07	4.0615E-06	1.7563E-06
6.1000E-01	4.1313E+01	1.0605E-05	1.0000E+01	-1.5058E-07	4.0600E-06	1.7241E-06
6.2000E-01	4.1260E+01	1.0585E-05	1.0000E+01	-1.5343E-07	4.0585E-06	1.6913E-06
6.3000E-01	4.1208E+01	1.0565E-05	1.0000E+01	-1.5530E-07	4.0570E-06	1.6600E-06
6.4000E-01	4.1160E+01	1.0546E-05	1.0000E+01	-1.5685E-07	4.0554E-06	1.6302E-06
6.5000E-01	4.1113E+01	1.0527E-05	1.0000E+01	-1.5691E-07	4.0538E-06	1.6027E-06
6.6000E-01	4.1069E+01	1.0509E-05	1.0000E+01	-1.5699E-07	4.0523E-06	1.5753E-06
6.7000E-01	4.1027E+01	1.0491E-05	1.0000E+01	-1.5683E-07	4.0507E-06	1.5495E-06
6.8000E-01	4.0987E+01	1.0474E-05	1.0000E+01	-1.5538E-07	4.0491E-06	1.5254E-06
6.9000E-01	4.0949E+01	1.0458E-05	1.0000E+01	-1.5432E-07	4.0476E-06	1.5018E-06
7.0000E-01	4.0913E+01	1.0442E-05	1.0000E+01	-1.5285E-07	4.0461E-06	1.4794E-06
7.1000E-01	4.0879E+01	1.0426E-05	1.0000E+01	-1.5087E-07	4.0445E-06	1.4582E-06
7.2000E-01	4.0848E+01	1.0411E-05	1.0000E+01	-1.4883E-07	4.0430E-06	1.4380E-06
7.3000E-01	4.0818E+01	1.0397E-05	1.0000E+01	-1.4683E-07	4.0416E-06	1.4188E-06
7.4000E-01	4.0787E+01	1.0383E-05	1.0000E+01	-1.4500E-07	4.0401E-06	1.4006E-06
7.5000E-01	4.0759E+01	1.0369E-05	1.0000E+01	-1.4328E-07	4.0387E-06	1.3832E-06
7.6000E-01	4.0733E+01	1.0356E-05	1.0000E+01	-1.3844E-07	4.0373E-06	1.3669E-06
7.7000E-01	4.0708E+01	1.0344E-05	1.0000E+01	-1.3524E-07	4.0359E-06	1.3514E-06
7.8000E-01	4.0685E+01	1.0331E-05	1.0000E+01	-1.3235E-07	4.0346E-06	1.3365E-06
7.9000E-01	4.0663E+01	1.0320E-05	1.0000E+01	-1.2904E-07	4.0333E-06	1.3227E-06
8.0000E-01	4.0643E+01	1.0309E-05	1.0000E+01	-1.2563E-07	4.0320E-06	1.3097E-06
8.1000E-01	4.0623E+01	1.0298E-05	1.0000E+01	-1.2214E-07	4.0308E-06	1.2974E-06
8.2000E-01	4.0605E+01	1.0288E-05	1.0000E+01	-1.1909E-07	4.0296E-06	1.2854E-06
8.3000E-01	4.0588E+01	1.0278E-05	1.0000E+01	-1.1552E-07	4.0284E-06	1.2745E-06
8.4000E-01	4.0572E+01	1.0268E-05	1.0000E+01	-1.1192E-07	4.0272E-06	1.2643E-06
8.5000E-01	4.0557E+01	1.0259E-05	1.0000E+01	-1.0888E-07	4.0261E-06	1.2541E-06
8.6000E-01	4.0542E+01	1.0250E-05	1.0000E+01	-1.0528E-07	4.0251E-06	1.2451E-06
8.7000E-01	4.0528E+01	1.0242E-05	1.0000E+01	-1.0168E-07	4.0240E-06	1.2367E-06
8.8000E-01	4.0516E+01	1.0234E-05	1.0000E+01	-9.8709E-08	4.0230E-06	1.2285E-06
8.9000E-01	4.0505E+01	1.0227E-05	1.0000E+01	-9.5166E-08	4.0221E-06	1.2206E-06
9.0000E-01	4.0494E+01	1.0219E-05	1.0000E+01	-9.1655E-08	4.0211E-06	1.2139E-06
9.1000E-01	4.0484E+01	1.0212E-05	1.0000E+01	-8.8183E-08	4.0202E-06	1.2075E-06
9.2000E-01	4.0474E+01	1.0206E-05	1.0000E+01	-8.5385E-08	4.0194E-06	1.2008E-06
9.3000E-01	4.0465E+01	1.0199E-05	1.0000E+01	-8.2018E-08	4.0185E-06	1.1953E-06
9.4000E-01	4.0457E+01	1.0193E-05	1.0000E+01	-7.8711E-08	4.0177E-06	1.1900E-06
9.5000E-01	4.0450E+01	1.0188E-05	1.0000E+01	-7.6079E-08	4.0169E-06	1.1846E-06
9.6000E-01	4.0442E+01	1.0182E-05	1.0000E+01	-7.2995E-08	4.0162E-06	1.1801E-06
9.7000E-01	4.0436E+01	1.0177E-05	1.0000E+01	-6.9790E-08	4.0155E-06	1.1760E-06
9.8000E-01	4.0430E+01	1.0172E-05	1.0000E+01	-6.7341E-08	4.0148E-06	1.1715E-06
9.9000E-01	4.0424E+01	1.0166E-05	1.0000E+01	-6.4376E-08	4.0141E-06	1.1680E-06
1.0000E+00	4.0419E+01	1.0163E-05	1.0000E+01	-6.1488E-08	4.0135E-06	1.1648E-06

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE	27 VARIABLE	28 VARIABLE
0.000E+00	7.425E+05	9.050E+01	6.050E+01	1.000E+00	0.000E+00	5.000E+00	3.100E+02
1.628E-05	5.800E-04	0.000E+00	1.684E+03	1.049E+06	2.560E-01	7.400E+01	1.714E+00
2.000E-02	2.158E-10	3.356E+03	2.780E+01	1.776E-02	2.500E-10	8.328E-09	1.850E-06
3.000E-02	-5.324E+00	-6.990E-01	2.550E+02	7.0137E+02	0.000E+00	6.260E+01	5.600E+01
4.000E-02	8.333E+00	-2.943E+02	2.560E+02	7.126E+02	0.000E+00	1.700E+08	1.221E-01
5.000E-02	-1.030E+01	-5.880E+02	2.512E+02	7.1887E+02	0.000E+00	5.208E-08	7.2259E+00
6.000E-02	-1.1107E+01	-6.212E+02	2.482E+02	7.2024E+02	0.000E+00	1.2215E+01	
7.000E-02	-9.0879E+01	-6.1714E+02	2.4491E+02	7.1818E+02	0.000E+00	1.5744E+00	
8.000E-02	-9.8704E+00	-5.8497E+02	2.4128E+02	7.1393E+02	0.000E+00	1.4074E+00	
9.000E-02	-8.3659E+00	-4.7713E+02	2.3790E+02	7.0859E+02	0.000E+00	1.2468E+00	
1.000E-01	-6.6006E+00	-3.7011E+02	2.3486E+02	7.0287E+02	0.000E+00	1.0985E+00	
1.000E-01	-4.7484E+00	-2.6869E+02	2.3224E+02	6.9741E+02	0.000E+00	9.5935E-01	
1.200E-01	-2.9390E+00	-1.7661E+01	2.3012E+02	6.9256E+02	0.000E+00	8.2815E-01	
1.300E-01	-1.2605E+00	-7.4261E+01	2.2735E+02	6.8819E+02	0.000E+00	7.0621E-01	
1.400E-01	-4.6823E-01	-4.6629E+00	2.2463E+02	6.8377E+02	0.000E+00	5.9358E-01	
1.500E-01	1.5687E+00	7.7372E+01	2.2630E+02	6.8095E+02	0.000E+00	4.8992E-01	
1.600E-01	2.6978E+00	1.4695E+02	2.2831E+02	6.7931E+02	0.000E+00	3.9508E-01	
1.700E-01	3.6468E+00	1.9132E+02	2.2858E+02	6.7937E+02	0.000E+00	3.0888E-01	
1.800E-01	4.4326E+00	2.4094E+02	2.2712E+02	6.7937E+02	0.000E+00	2.3090E-01	
1.900E-01	5.0728E+00	2.8084E+02	2.2784E+02	6.7937E+02	0.000E+00	1.6072E-01	
2.000E-01	5.5869E+00	3.1236E+02	2.2671E+02	6.8014E+02	0.000E+00	9.7940E-02	
2.100E-01	6.3049E+00	3.3127E+02	2.2671E+02	6.8083E+02	0.000E+00	7.3803E-03	
2.200E-01	6.5405E+00	3.5110E+02	2.2871E+02	6.9012E+02	0.000E+00	-5.0857E-02	
2.300E-01	6.7106E+00	3.6573E+02	2.3080E+02	6.8189E+02	0.000E+00	-8.8892E-02	
2.400E-01	6.8248E+00	3.7363E+02	2.3197E+02	6.8410E+02	0.000E+00	-1.2192E-01	
2.500E-01	6.8939E+00	3.8140E+02	2.3445E+02	6.8530E+02	0.000E+00	-1.5033E-01	
2.600E-01	6.9356E+00	3.8589E+02	2.3573E+02	6.8652E+02	0.000E+00	-1.7463E-01	
2.700E-01	6.9673E+00	3.8783E+02	2.3702E+02	6.8774E+02	0.000E+00	-1.9524E-01	
2.800E-01	6.9890E+00	3.8791E+02	2.3822E+02	6.8894E+02	0.000E+00	-2.1234E-01	
2.900E-01	6.9967E+00	3.8647E+02	2.3960E+02	6.9012E+02	0.000E+00	-2.2646E-01	
3.000E-01	6.9733E+00	3.8357E+02	2.4088E+02	6.9126E+02	0.000E+00	-2.3789E-01	
3.100E-01	6.7799E+00	3.8081E+02	2.4214E+02	6.9237E+02	0.000E+00	-2.4687E-01	
3.200E-01	6.6976E+00	3.7581E+02	2.4337E+02	6.9342E+02	0.000E+00	-2.5386E-01	
3.300E-01	6.6043E+00	3.7021E+02	2.4458E+02	6.9442E+02	0.000E+00	-2.5858E-01	
3.400E-01	6.5018E+00	3.6559E+02	2.4576E+02	6.9537E+02	0.000E+00	-2.6182E-01	
3.500E-01	6.3908E+00	3.5900E+02	2.4691E+02	6.9627E+02	0.000E+00	-2.6351E-01	
3.600E-01	6.2748E+00	3.4478E+02	2.4803E+02	6.9711E+02	0.000E+00	-2.6393E-01	
3.700E-01	6.1554E+00	3.3921E+02	2.4911E+02	6.9789E+02	0.000E+00	-2.6323E-01	
3.800E-01	6.0322E+00	3.3416E+02	2.5016E+02	6.9862E+02	0.000E+00	-2.6148E-01	
3.900E-01	5.9074E+00	3.3169E+02	2.5117E+02	6.9930E+02	0.000E+00	-2.5889E-01	
4.000E-01	5.7823E+00	3.2411E+02	2.5215E+02	6.9992E+02	0.000E+00	-2.5558E-01	
4.100E-01	5.6569E+00	3.1841E+02	2.5308E+02	7.0049E+02	0.000E+00	-2.5163E-01	
4.200E-01	5.5317E+00	3.1085E+02	2.5400E+02	7.0102E+02	0.000E+00	-2.4712E-01	
4.300E-01	5.4080E+00	3.0336E+02	2.5487E+02	7.0150E+02	0.000E+00	-2.4219E-01	
4.400E-01	5.2863E+00	2.9780E+02	2.5570E+02	7.0194E+02	0.000E+00	-2.3689E-01	
4.500E-01	5.1656E+00	2.9050E+02	2.5650E+02	7.0233E+02	0.000E+00	-2.3125E-01	
4.600E-01	5.0476E+00	2.8334E+02	2.5727E+02	7.0269E+02	0.000E+00	-2.2539E-01	
4.700E-01							
4.800E-01							
4.900E-01							
5.000E-01							
5.100E-01							
5.200E-01							
5.300E-01							
5.400E-01							
5.500E-01							
5.600E-01							
5.700E-01							
5.800E-01							
5.900E-01							
6.000E-01							

4.7000E-01	4.9325E+00	2.7635E+02	2.5800E+02	7.0301E+02	0.0000E+00	-2.1935E-01	6.9938E+02
4.8000E-01	4.8196E+00	2.7122E+02	2.5871E+02	7.0329E+02	0.0000E+00	-2.1314E-01	6.9976E+02
4.9000E-01	4.7095E+00	2.6454E+02	2.5938E+02	7.0395E+02	0.0000E+00	-2.0684E-01	7.0016E+02
5.0000E-01	4.6027E+00	2.5806E+02	2.6002E+02	7.0377E+02	0.0000E+00	-2.0048E-01	7.0052E+02
5.1000E-01	4.4990E+00	2.5333E+02	2.6063E+02	7.0396E+02	0.0000E+00	-1.9409E-01	7.0081E+02
5.2000E-01	4.3980E+00	2.4719E+02	2.6121E+02	7.0413E+02	0.0000E+00	-1.8769E-01	7.0111E+02
5.3000E-01	4.3005E+00	2.4127E+02	2.6176E+02	7.0427E+02	0.0000E+00	-1.8132E-01	7.0139E+02
5.4000E-01	4.2065E+00	2.3555E+02	2.6229E+02	7.0439E+02	0.0000E+00	-1.7499E-01	7.0164E+02
5.5000E-01	4.1146E+00	2.3140E+02	2.6279E+02	7.0449E+02	0.0000E+00	-1.6872E-01	7.0183E+02
5.6000E-01	4.0268E+00	2.2804E+02	2.6326E+02	7.0457E+02	0.0000E+00	-1.6253E-01	7.0203E+02
5.7000E-01	3.9419E+00	2.2489E+02	2.6371E+02	7.0463E+02	0.0000E+00	-1.5644E-01	7.0220E+02
5.8000E-01	3.8601E+00	2.2176E+02	2.6414E+02	7.0468E+02	0.0000E+00	-1.5044E-01	7.0234E+02
5.9000E-01	3.7813E+00	2.1873E+02	2.6454E+02	7.0471E+02	0.0000E+00	-1.4456E-01	7.0248E+02
6.0000E-01	3.7056E+00	2.1577E+02	2.6493E+02	7.0472E+02	0.0000E+00	-1.3881E-01	7.0260E+02
6.1000E-01	3.6330E+00	2.1293E+02	2.6529E+02	7.0473E+02	0.0000E+00	-1.3319E-01	7.0269E+02
6.2000E-01	3.5632E+00	2.1021E+02	2.6563E+02	7.0475E+02	0.0000E+00	-1.2779E-01	7.0278E+02
6.3000E-01	3.4962E+00	2.0761E+02	2.6596E+02	7.0476E+02	0.0000E+00	-1.2255E-01	7.0285E+02
6.4000E-01	3.4322E+00	2.0512E+02	2.6626E+02	7.0477E+02	0.0000E+00	-1.1744E-01	7.0291E+02
6.5000E-01	3.3708E+00	2.0274E+02	2.6655E+02	7.0478E+02	0.0000E+00	-1.1246E-01	7.0295E+02
6.6000E-01	3.3120E+00	2.0046E+02	2.6682E+02	7.0479E+02	0.0000E+00	-1.0761E-01	7.0299E+02
6.7000E-01	3.2559E+00	1.9828E+02	2.6707E+02	7.0480E+02	0.0000E+00	-1.0291E-01	7.0302E+02
6.8000E-01	3.2023E+00	1.9620E+02	2.6731E+02	7.0481E+02	0.0000E+00	-9.7790E-02	7.0304E+02
6.9000E-01	3.1512E+00	1.9421E+02	2.6754E+02	7.0482E+02	0.0000E+00	-9.3302E-02	7.0306E+02
7.0000E-01	3.1024E+00	1.9231E+02	2.6775E+02	7.0483E+02	0.0000E+00	-8.9002E-02	7.0308E+02
7.1000E-01	3.0560E+00	1.9049E+02	2.6794E+02	7.0484E+02	0.0000E+00	-8.4829E-02	7.0309E+02
7.2000E-01	3.0117E+00	1.8874E+02	2.6813E+02	7.0485E+02	0.0000E+00	-8.0800E-02	7.0310E+02
7.3000E-01	2.9697E+00	1.8706E+02	2.6830E+02	7.0486E+02	0.0000E+00	-7.6915E-02	7.0311E+02
7.4000E-01	2.9297E+00	1.8544E+02	2.6846E+02	7.0487E+02	0.0000E+00	-7.3171E-02	7.0312E+02
7.5000E-01	2.8917E+00	1.8387E+02	2.6861E+02	7.0488E+02	0.0000E+00	-6.9566E-02	7.0313E+02
7.6000E-01	2.8556E+00	1.8235E+02	2.6875E+02	7.0489E+02	0.0000E+00	-6.6093E-02	7.0314E+02
7.7000E-01	2.8215E+00	1.8087E+02	2.6888E+02	7.0490E+02	0.0000E+00	-6.2760E-02	7.0315E+02
7.8000E-01	2.7891E+00	1.7944E+02	2.6900E+02	7.0491E+02	0.0000E+00	-5.9557E-02	7.0316E+02
7.9000E-01	2.7584E+00	1.7805E+02	2.6912E+02	7.0492E+02	0.0000E+00	-5.6477E-02	7.0317E+02
8.0000E-01	2.7294E+00	1.7670E+02	2.6922E+02	7.0493E+02	0.0000E+00	-5.3523E-02	7.0318E+02
8.1000E-01	2.7020E+00	1.7539E+02	2.6932E+02	7.0494E+02	0.0000E+00	-5.0690E-02	7.0319E+02
8.2000E-01	2.6761E+00	1.7412E+02	2.6941E+02	7.0495E+02	0.0000E+00	-4.7977E-02	7.0320E+02
8.3000E-01	2.6517E+00	1.7289E+02	2.6949E+02	7.0496E+02	0.0000E+00	-4.5377E-02	7.0321E+02
8.4000E-01	2.6287E+00	1.7171E+02	2.6956E+02	7.0497E+02	0.0000E+00	-4.2888E-02	7.0322E+02
8.5000E-01	2.6070E+00	1.7058E+02	2.6963E+02	7.0498E+02	0.0000E+00	-4.0508E-02	7.0323E+02
8.6000E-01	2.5866E+00	1.6949E+02	2.6969E+02	7.0499E+02	0.0000E+00	-3.8234E-02	7.0324E+02
8.7000E-01	2.5675E+00	1.4384E+02	2.6975E+02	7.0500E+02	0.0000E+00	-3.6060E-02	7.0325E+02
8.8000E-01	2.5494E+00	1.4301E+02	2.6980E+02	7.0501E+02	0.0000E+00	-3.3984E-02	7.0326E+02
8.9000E-01	2.5325E+00	1.4198E+02	2.6985E+02	7.0502E+02	0.0000E+00	-3.2004E-02	7.0327E+02
9.0000E-01	2.5167E+00	1.4101E+02	2.6990E+02	7.0503E+02	0.0000E+00	-3.0116E-02	7.0328E+02
9.1000E-01	2.5018E+00	1.4011E+02	2.6994E+02	7.0504E+02	0.0000E+00	-2.8315E-02	7.0329E+02
9.2000E-01	2.4880E+00	1.3946E+02	2.6997E+02	7.0505E+02	0.0000E+00	-2.6602E-02	7.0330E+02
9.3000E-01	2.4750E+00	1.3886E+02	2.7000E+02	7.0506E+02	0.0000E+00	-2.4970E-02	7.0331E+02
9.4000E-01	2.4629E+00	1.3795E+02	2.7003E+02	7.0507E+02	0.0000E+00	-2.3417E-02	7.0332E+02
9.5000E-01	2.4516E+00	1.3743E+02	2.7006E+02	7.0508E+02	0.0000E+00	-2.1941E-02	7.0333E+02
9.6000E-01	2.4411E+00	1.3678E+02	2.7008E+02	7.0509E+02	0.0000E+00	-2.0540E-02	7.0334E+02
9.7000E-01	2.4314E+00	1.3619E+02	2.7010E+02	7.0510E+02	0.0000E+00	-1.9208E-02	7.0335E+02
9.8000E-01	2.4223E+00	1.3578E+02	2.7011E+02	7.0511E+02	0.0000E+00	-1.7943E-02	7.0336E+02
9.9000E-01	2.4139E+00	1.3526E+02	2.7013E+02	7.0512E+02	0.0000E+00	-1.6746E-02	7.0337E+02
1.0000E+00	2.4061E+00	1.3478E+02	2.7014E+02	7.0513E+02	0.0000E+00	-1.5610E-02	7.0338E+02

C Appendix #32

C PROGRAM DINT8

C-----  
 C FUNCTION : This program will perform an iterative calculation  
 C of a certain network.  
 C It utilizes the INTI subroutine to solve integrator cells,  
 C algebraic expressions to solve other nodes, and iterations  
 C for long path feedbacks.

C Author : Leonardo Kopeloff. Jan.85

C Language : Fortran-77

C Inputs : Interval, interval quantity, number of state variables,  
 C number of coefficients and initial conditions.

C Outputs : State vector time response.

C Linking :Link with INTI subroutine .

C-----  
 C VARIABLE DECLARATION.

C INTEGER XI,KI,Z(28),XI1,XI2,XI3,FLAG,PTC/0/,MXIT,C,I,PTCD

C INTEGER XX,XY,KX,KY,COU/0/

C INTEGER DSTIM,DTM/1/,DISCF

C DOUBLE PRECISION X(28,3),K(50),DLT,FTIM,T/0.0/,COUNT/0.0/

C COMMON X,K,DLT,FLAG

C-----  
 C OPEN THE OUTPUT FILE.

C OPEN (UNIT=10,STATUS='NEW',NAME='SP1.DAT')  
 C OPEN (UNIT=11,STATUS='NEW',NAME='SP2.DAT')  
 C OPEN (UNIT=12,STATUS='NEW',NAME='SP3.DAT')  
 C OPEN (UNIT=13,STATUS='NEW',NAME='SP4.DAT')

C-----  
 C READ AND PRINT INPUT DATA.  
 C-----

```

C
50  FORMAT('1',5X,'ITERATIVE METHOD. TIME RESPONSE',/)
60  FORMAT(/,70('*'),/)
70  FORMAT(1P8E13.4)
80  FORMAT(5X,'COEFFICIENTS VALUES.',//)
90  FORMAT(5X,'TIME      ',7(I2,' VARIABLE  '))
    PRINT *, 'ENTER NUMBER OF VARIABLES.'
    READ *, XI
    PRINT *, 'ENTER NUMBER OF COEFFICIENTS.'
    READ *, KI
    PRINT *, 'ENTER VARIABLES INITIAL VALUES.'
    DO I=1,XI
        READ *, X(I,1)
        X(I,2)=X(I,1)
        X(I,3)=0.0
    END DO
    PRINT *, 'ENTER COEFFICIENTS VALUES.'
    DO I=1,KI
        READ *, K(I)
    END DO
    PRINT *, 'ENTER INCREMENT OF TIME AND FINAL TIME.'
    READ *, DLT, FTIM
    PRINT *, 'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
    READ *, PTCD, MXIT
    PRINT *, 'ENTER DISCRETE TIME.'
    READ *, DSTIM

C
    DO I=1,XI
        Z(I)=I
    END DO

C
C*****
C
C      WRITE TITLE AND INITIAL CONDITIONS.
C*****
C
    IF (XI.GT.21) THEN
        WRITE(13,50)
        WRITE(13,60)
        WRITE(13,80)
        WRITE(13,70), (K(I), I=1, KI)
        WRITE(13,60)
        WRITE(13,90), (Z(I), I=22, XI)
        WRITE(13,70), T, (X(I,1), I=22, XI)
        XI1=21
    ELSE
        XI1=XI
    ENDIF
    IF (XI1.GT.14) THEN
        WRITE(12,50)
        WRITE(12,60)
        WRITE(12,80)
        WRITE(12,70), (K(I), I=1, KI)
        WRITE(12,60)
        WRITE(12,90), (Z(I), I=15, XI1)
        WRITE(12,70), T, (X(I,1), I=15, XI1)
        XI2=14
    ELSE
        XI2=XI

```

```

ENDIF
IF (XI2.GT.7) THEN
  WRITE(11,50)
  WRITE(11,60)
  WRITE(11,80)
  WRITE(11,70),(K(I),I=1,KI)
  WRITE(11,60)
  WRITE(11,90),(Z(I),I=8,XI2)
  WRITE(11,70),T,(X(I,1),I=8,XI2)
  XI3=7
ELSE
  XI3=XI
ENDIF
WRITE(10,50)
WRITE(10,60)
WRITE(10,80)
WRITE(10,70),(K(I),I=1,KI)
WRITE(10,60)
WRITE(10,90),(Z(I),I=1,XI3)
WRITE(10,70),T,(X(I,1),I=1,XI3)

```

C  
C-----  
C  
C  
C  
C  
C  
C

TIME LOOP.

```

DO WHILE (T.LE.FTIM)
  C=0
  FLAG=0
  DISCF=0

```

C  
C\*\*\*\*\*  
C  
C  
C  
C  
C  
C  
C

ITERATION LOOP.

```

DO WHILE ((FLAG.LT.1).AND.(C.LE.MXIT))
  C=C+1
  FLAG=1
  X(2,2)=X(1,2)*K(1)-X(16,2)*K(24)+X(17,2)*K(26)
  XX=2
  XY=3
  KX=2
  KY=3
  CALL INTI(XX,XY,KX,KY)
  X(4,2)=X(2,2)*K(2)-X(3,2)*K(4)
  XX=4
  XY=5
  KX=5
  KY=6
  CALL INTI(XX,XY,KX,KY)
  X(6,2)=X(4,2)+X(5,2)*K(7)
  X(7,2)=X(6,2)*K(8)*K(9)/X(24,2)-X(14,2)*K(23)
  XX=7
  XY=8
  KX=10
  KY=11

```



```

CALL INTI (XX,XY,KX,KY)
X(9,2)=X(7,2)*K(10)+X(8,2)*K(12)-X(14,2)*K(22)
XX=9
XY=10
KX=13
KY=14
CALL INTI (XX,XY,KX,KY)
X(11,2)=(X(9,2)*K(13)+X(10,2)*K(15))*K(16)
IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
    X(12,2)=X(11,2)*K(17)
ENDIF
X(13,2)=X(12,2)-X(25,2)
XX=13
XY=14
KX=19
KY=20
CALL INTI (XX,XY,KX,KY)
X(15,2)=X(14,2)*K(21)*X(24,2)/K(8)-X(26,2)*K(21)
XX=15
XY=16
KX=5
KY=6
CALL INTI (XX,XY,KX,KY)
XX=16
XY=17
KX=24
KY=25
CALL INTI (XX,XY,KX,KY)
X(19,2)=X(18,2)*K(27)+X(14,2)*K(18)-X(12,2)*K(38)
XX=19
XY=20
KX=5
KY=6
CALL INTI (XX,XY,KX,KY)
X(21,2)=(X(19,2)+X(20,2)*K(28))*K(29)-X(24,2)*K(37)
XX=21
XY=22
KX=30
KY=31
CALL INTI (XX,XY,KX,KY)
IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
    DISCF=1
    X(23,2)=X(22,2)*K(32)
ENDIF
XX=23
XY=24
KX=34
KY=35
CALL INTI (XX,XY,KX,KY)
X(25,2)=X(24,2)*X(16,2)*K(36)
XX=13
XY=27
KX=33
KY=39
CALL INTI (XX,XY,KX,KY)
X(28,2)=X(13,2)*K(33)+X(27,2)*K(40)+X(25,2)
COUNT=COUNT+1.0
ENDDO
IF (C.GT.COU) THEN
    COU = C

```

```
ENDIF
IF (C.GT.MXIT) THEN
  PRINT *,C,'ITERATIVE LOOPS AT:',T,'SEC.'
END IF
IF (DTM.GE.DSTIM) THEN
  DTM=0
ENDIF
PTC=PTC+1
T=T+DLT
DTM=DTM+1
IF (PTC.EQ.PTCD) THEN
  PTC=0
  IF(XI.GT.21) THEN
    WRITE(13,70),T,(X(I,2),I=22,XI)
  END IF
  IF(XI1.GT.14) THEN
    WRITE(12,70),T,(X(I,2),I=15,XI1)
  END IF
  IF(XI2.GT.7) THEN
    WRITE(11,70),T,(X(I,2),I=8,XI2)
  END IF
  WRITE(10,70),T,(X(I,2),I=1,XI3)
END IF
DO I=1,XI
  X(I,1)=X(I,2)
END DO
ENDDO
PRINT *, '# OF SWEEPS:',COUNT
PRINT *, '# OF MAX ITERATIONS:',COU
END
```

Appendix #33.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.0000E+00	5.0500E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E-02	5.0500E+00	1.5994E-05	7.3184E-02	7.4485E+00	8.5249E-02	7.8748E+00	1.2221E-04
2.0000E-02	5.0500E+00	1.6446E-05	1.0971E-01	5.5745E+00	1.4996E-01	6.3243E+00	5.6826E-05
3.0000E-02	5.0500E+00	1.5971E-05	1.2351E-01	4.3870E+00	1.9914E-01	5.3827E+00	3.5670E-05
4.0000E-02	5.0500E+00	1.5443E-05	1.2648E-01	3.8150E+00	2.3978E-01	5.0138E+00	3.6908E-05
5.0000E-02	5.0500E+00	1.5011E-05	1.2537E-01	3.5619E+00	2.7649E-01	4.8443E+00	4.7128E-05
6.0000E-02	5.0500E+00	1.4637E-05	1.2302E-01	3.4270E+00	3.1139E-01	4.9839E+00	5.9430E-05
7.0000E-02	5.0500E+00	1.4250E-05	1.2020E-01	3.3091E+00	3.4508E-01	5.0345E+00	6.9104E-05
8.0000E-02	5.0500E+00	1.3794E-05	1.1700E-01	3.1640E+00	3.7747E-01	5.0514E+00	7.2610E-05
9.0000E-02	5.0500E+00	1.3230E-05	1.1319E-01	2.9758E+00	4.0821E-01	5.0167E+00	6.8400E-05
1.0000E-01	5.0500E+00	1.2536E-05	1.0853E-01	2.7419E+00	4.3683E-01	4.9261E+00	5.6766E-05
1.2000E-01	5.0500E+00	1.0746E-05	9.8185E-02	2.4678E+00	4.8609E-01	4.5932E+00	3.9190E-05
1.4000E-01	5.0500E+00	8.6834E-06	8.8488E-02	2.1828E+00	5.0610E-01	4.3687E+00	1.8192E-06
1.6000E-01	5.0500E+00	6.8407E-06	7.9915E-02	1.9068E+00	5.2282E-01	4.1211E+00	1.9856E-05
1.8000E-01	5.0500E+00	5.3554E-06	7.0739E-02	1.5088E+00	5.3628E-01	3.8633E+00	3.3875E-05
2.0000E-01	5.0500E+00	4.1715E-06	6.1208E-02	8.7532E-01	5.4653E-01	3.6080E+00	4.3313E-05
2.4000E-01	5.0500E+00	2.7593E-07	5.1619E-02	5.9658E-01	5.5388E-01	3.3059E+00	4.8366E-05
2.8000E-01	5.0500E+00	1.0553E-08	4.2761E-02	3.5237E-01	5.5858E-01	3.1453E+00	4.9747E-05
3.2000E-01	5.0500E+00	1.2693E-06	3.3388E-02	1.4594E-01	5.6104E-01	2.9511E+00	4.8367E-05
3.6000E-01	5.0500E+00	2.9178E-06	2.5204E-02	-7.2259E-02	5.6162E-01	2.7855E+00	4.5122E-05
4.0000E-01	5.0500E+00	2.0231E-06	1.7849E-02	-1.5557E-01	5.6070E-01	2.6479E+00	4.0842E-05
4.4000E-01	5.0500E+00	1.2448E-06	1.1398E-02	-2.5983E-01	5.5662E-01	2.5362E+00	3.6122E-05
4.8000E-01	5.0500E+00	6.8267E-07	1.5988E-03	-3.3149E-01	5.5665E-01	2.4468E+00	3.1367E-05
5.2000E-01	5.0500E+00	3.1733E-06	5.8688E-03	-8.420E-01	5.5206E-01	2.3761E+00	2.6882E-05
5.6000E-01	5.0500E+00	4.1715E-07	1.2306E-03	-4.1989E-01	5.4803E-01	2.3205E+00	2.2852E-05
6.0000E-01	5.0500E+00	7.7598E-07	2.5793E-03	-4.2011E-01	5.4371E-01	2.2765E+00	1.9290E-05
6.4000E-01	5.0500E+00	1.0553E-06	5.6460E-03	-4.2011E-01	5.3922E-01	2.2415E+00	1.6205E-05
6.8000E-01	5.0500E+00	1.2693E-06	8.0645E-03	-4.6014E-01	5.3464E-01	2.2131E+00	1.3645E-05
7.2000E-01	5.0500E+00	1.5442E-06	9.9311E-03	-4.6072E-01	5.3003E-01	2.1895E+00	1.1493E-05
7.6000E-01	5.0500E+00	1.6725E-06	1.2369E-02	-4.5782E-01	5.2544E-01	2.1693E+00	9.6931E-06
8.0000E-01	5.0500E+00	1.8245E-06	1.3098E-02	-4.5283E-01	5.2088E-01	2.1515E+00	8.2303E-06
8.4000E-01	5.0500E+00	1.7084E-06	1.3588E-02	-4.4651E-01	5.1638E-01	2.1354E+00	7.0403E-06
8.8000E-01	5.0500E+00	1.7234E-06	1.3891E-02	-4.3928E-01	5.1196E-01	2.1285E+00	6.0526E-06
9.2000E-01	5.0500E+00	1.281E-06	1.4051E-02	-4.3158E-01	5.0760E-01	2.1084E+00	5.2366E-06
9.6000E-01	5.0500E+00	1.7196E-06	1.4102E-02	-4.2369E-01	5.0322E-01	2.0929E+00	4.5937E-06
1.0000E+00	5.0500E+00	1.7064E-06	1.4072E-02	-4.1575E-01	4.9913E-01	2.0799E+00	4.0504E-06
1.2000E+00	5.0500E+00	1.6884E-06	1.3980E-02	-4.0786E-01	4.9501E-01	2.0672E+00	3.5865E-06
1.4000E+00	5.0500E+00	1.6695E-06	1.3845E-02	-4.0009E-01	4.9097E-01	2.0548E+00	3.2166E-06
1.6000E+00	5.0500E+00	1.6429E-06	1.3678E-02	-3.9240E-01	4.8701E-01	2.0428E+00	2.9103E-06
1.8000E+00	5.0500E+00	1.6173E-06	1.3489E-02	-3.8484E-01	4.8312E-01	2.0308E+00	2.6343E-06
2.0000E+00	5.0500E+00	1.5906E-06	1.3284E-02	-3.7739E-01	4.7931E-01	2.0192E+00	2.4029E-06
2.4000E+00	5.0500E+00	1.5630E-06	1.3068E-02	-3.7001E-01	4.7557E-01	2.0079E+00	2.2121E-06
2.8000E+00	5.0500E+00	1.5350E-06	1.2844E-02	-3.6270E-01	4.7191E-01	1.9968E+00	2.0351E-06
3.2000E+00	5.0500E+00	1.5086E-06	1.2616E-02	-3.5546E-01	4.6832E-01	1.9861E+00	1.8715E-06

4.5000E-01	4.5000E+00	-1.4780E-06	-1.2384E-02	-3.4825E-01	4.6400E-01	1.9758E+00	-1.7456E-06
4.6000E-01	5.0500E+00	-1.4493E-06	-1.2151E-02	-3.4105E-01	4.6135E-01	1.9657E+00	-1.6237E-06
4.7000E-01	5.0500E+00	-1.1915E-06	-1.1915E-02	-3.2878E-01	4.5798E-01	1.9560E+00	-1.5054E-06
4.8000E-01	5.0500E+00	-1.3916E-06	-1.1679E-02	-3.2872E-01	4.5468E-01	1.9467E+00	-1.4083E-06
4.9000E-01	5.0500E+00	-1.3626E-06	-1.1442E-02	-3.1955E-01	4.5144E-01	1.9377E+00	-1.3195E-06
5.0000E-01	5.0500E+00	-1.3336E-06	-1.1205E-02	-3.1238E-01	4.4829E-01	1.9290E+00	-1.2309E-06
5.1000E-01	5.0500E+00	-1.3046E-06	-1.0967E-02	-3.0521E-01	4.4520E-01	1.9208E+00	-1.1497E-06
5.2000E-01	5.0500E+00	-1.2755E-06	-1.0729E-02	-2.9804E-01	4.4218E-01	1.9129E+00	-1.0827E-06
5.3000E-01	5.0500E+00	-1.2465E-06	-1.0491E-02	-2.9087E-01	4.3924E-01	1.9053E+00	-1.0143E-06
5.4000E-01	5.0500E+00	-1.2174E-06	-1.0252E-02	-2.8370E-01	4.3636E-01	1.8981E+00	-9.4513E-07
5.5000E-01	5.0500E+00	-1.1883E-06	-1.0013E-02	-2.7655E-01	4.3355E-01	1.8913E+00	-8.9215E-07
5.6000E-01	5.0500E+00	-1.1592E-06	-9.7749E-03	-2.6940E-01	4.3083E-01	1.8848E+00	-8.3835E-07
5.7000E-01	5.0500E+00	-1.1302E-06	-9.5385E-03	-2.6228E-01	4.2817E-01	1.8786E+00	-7.8332E-07
5.8000E-01	5.0500E+00	-1.1013E-06	-9.2988E-03	-2.5519E-01	4.2559E-01	1.8727E+00	-7.3589E-07
5.9000E-01	5.0500E+00	-1.0724E-06	-9.0611E-03	-2.4812E-01	4.2307E-01	1.8672E+00	-6.9319E-07
6.0000E-01	5.0500E+00	-1.0437E-06	-8.8244E-03	-2.4110E-01	4.2062E-01	1.8623E+00	-6.4905E-07
6.1000E-01	5.0500E+00	-1.0151E-06	-8.5887E-03	-2.3414E-01	4.1825E-01	1.8571E+00	-6.0638E-07
6.2000E-01	5.0500E+00	-9.8686E-07	-8.3541E-03	-2.2723E-01	4.1594E-01	1.8525E+00	-5.7223E-07
6.3000E-01	5.0500E+00	-9.5844E-07	-8.1200E-03	-2.2037E-01	4.1370E-01	1.8481E+00	-5.3678E-07
6.4000E-01	5.0500E+00	-9.3044E-07	-7.8891E-03	-2.1360E-01	4.1153E-01	1.8441E+00	-5.0030E-07
6.5000E-01	5.0500E+00	-9.0289E-07	-7.6593E-03	-2.0690E-01	4.0943E-01	1.8403E+00	-4.7123E-07
6.6000E-01	5.0500E+00	-8.7522E-07	-7.4315E-03	-2.0028E-01	4.0740E-01	1.8367E+00	-4.4262E-07
6.7000E-01	5.0500E+00	-8.4805E-07	-7.2060E-03	-1.9375E-01	4.0543E-01	1.8334E+00	-4.1309E-07
6.8000E-01	5.0500E+00	-8.2121E-07	-6.9829E-03	-1.8731E-01	4.0352E-01	1.8303E+00	-3.8655E-07
6.9000E-01	5.0500E+00	-7.9473E-07	-6.7626E-03	-1.8098E-01	4.0168E-01	1.8274E+00	-3.5962E-07
7.0000E-01	5.0500E+00	-7.6862E-07	-6.5451E-03	-1.7475E-01	3.9990E-01	1.8247E+00	-3.3353E-07
7.1000E-01	5.0500E+00	-7.4291E-07	-6.3306E-03	-1.6864E-01	3.9818E-01	1.8223E+00	-3.0962E-07
7.2000E-01	5.0500E+00	-7.1762E-07	-6.1194E-03	-1.6263E-01	3.9653E-01	1.8200E+00	-2.8715E-07
7.3000E-01	5.0500E+00	-6.9276E-07	-5.9117E-03	-1.5674E-01	3.9493E-01	1.8179E+00	-2.7785E-07
7.4000E-01	5.0500E+00	-6.6835E-07	-5.7074E-03	-1.5098E-01	3.9339E-01	1.8160E+00	-2.5803E-07
7.5000E-01	5.0500E+00	-6.4442E-07	-5.5069E-03	-1.4534E-01	3.9191E-01	1.8142E+00	-2.4154E-07
7.6000E-01	5.0500E+00	-6.2096E-07	-5.3101E-03	-1.3982E-01	3.9049E-01	1.8126E+00	-2.2603E-07
7.7000E-01	5.0500E+00	-5.9798E-07	-5.1173E-03	-1.3444E-01	3.8911E-01	1.8111E+00	-2.1001E-07
7.8000E-01	5.0500E+00	-5.7553E-07	-4.9285E-03	-1.2918E-01	3.8780E-01	1.8098E+00	-1.9508E-07
7.9000E-01	5.0500E+00	-5.5358E-07	-4.7438E-03	-1.2406E-01	3.8653E-01	1.8086E+00	-1.8269E-07
8.0000E-01	5.0500E+00	-5.3215E-07	-4.5634E-03	-1.1906E-01	3.8531E-01	1.8075E+00	-1.6981E-07
8.1000E-01	5.0500E+00	-5.1125E-07	-4.3871E-03	-1.1420E-01	3.8415E-01	1.8065E+00	-1.5654E-07
8.2000E-01	5.0500E+00	-4.9088E-07	-4.2152E-03	-1.0948E-01	3.8303E-01	1.8057E+00	-1.4658E-07
8.3000E-01	5.0500E+00	-4.7103E-07	-4.0476E-03	-1.0488E-01	3.8196E-01	1.8049E+00	-1.3629E-07
8.4000E-01	5.0500E+00	-4.5173E-07	-3.8843E-03	-1.0042E-01	3.8093E-01	1.8042E+00	-1.2571E-07
8.5000E-01	5.0500E+00	-4.3295E-07	-3.7255E-03	-9.6097E-02	3.7995E-01	1.8036E+00	-1.1662E-07
8.6000E-01	5.0500E+00	-4.1472E-07	-3.5710E-03	-9.1902E-02	3.7901E-01	1.8031E+00	-1.0846E-07
8.7000E-01	5.0500E+00	-3.9702E-07	-3.4209E-03	-8.7837E-02	3.7811E-01	1.8027E+00	-1.0003E-07
8.8000E-01	5.0500E+00	-3.7985E-07	-3.2752E-03	-8.3903E-02	3.7725E-01	1.8024E+00	-9.1887E-08
8.9000E-01	5.0500E+00	-3.6320E-07	-3.1338E-03	-8.0096E-02	3.7643E-01	1.8021E+00	-8.5507E-08
9.0000E-01	5.0500E+00	-3.4708E-07	-2.9968E-03	-7.6416E-02	3.7565E-01	1.8018E+00	-7.9836E-08
9.1000E-01	5.0500E+00	-3.3148E-07	-2.8641E-03	-7.2862E-02	3.7490E-01	1.8017E+00	-7.4973E-08
9.2000E-01	5.0500E+00	-3.1639E-07	-2.7356E-03	-6.9431E-02	3.7419E-01	1.8014E+00	-6.6445E-08
9.3000E-01	5.0500E+00	-3.0181E-07	-2.6113E-03	-6.6120E-02	3.7351E-01	1.8014E+00	-6.1433E-08
9.4000E-01	5.0500E+00	-2.8772E-07	-2.4912E-03	-6.2929E-02	3.7287E-01	1.8014E+00	-5.6021E-08
9.5000E-01	5.0500E+00	-2.7413E-07	-2.3752E-03	-5.9855E-02	3.7226E-01	1.8014E+00	-5.1245E-08
9.6000E-01	5.0500E+00	-2.6102E-07	-2.2632E-03	-5.6894E-02	3.7167E-01	1.8015E+00	-4.7236E-08
9.7000E-01	5.0500E+00	-2.4836E-07	-2.1551E-03	-5.4046E-02	3.7112E-01	1.8015E+00	-4.3020E-08
9.8000E-01	5.0500E+00	-2.3621E-07	-2.0510E-03	-5.1308E-02	3.7059E-01	1.8016E+00	-3.8753E-08
9.9000E-01	5.0500E+00	-2.2449E-07	-1.9507E-03	-4.8677E-02	3.7009E-01	1.8018E+00	-3.5732E-08
1.0000E+00	5.0500E+00	-2.1322E-07	-1.8541E-03	-4.6150E-02	3.6962E-01	1.8019E+00	-3.2499E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.6280E+02	2.1589E-10	3.3566E+03	2.7800E-02	1.7760E-02	2.8500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E+01	5.6000E+01
4.3790E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	0.0000E+00						
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E-02	9.2686E-10	1.2842E-06	1.2213E-02	3.8664E+00	6.4055E+02	2.7485E+02	1.4038E+03
1.0000E-02	1.4788E-09	4.8485E-07	1.6934E-02	3.0312E+00	5.0386E+02	1.7642E+02	7.7220E+03
3.0000E-02	1.6855E-09	2.6826E-07	1.6280E-02	2.5558E+00	4.1706E+02	1.2631E+02	1.0228E+04
4.0000E-02	1.8925E-09	2.5835E-07	1.4965E-02	2.3730E+00	3.9031E+02	1.3947E+02	1.1647E+04
5.0000E-02	2.1385E-09	2.8974E-07	1.4114E-02	2.3203E+00	3.7785E+02	1.6067E+02	1.3180E+04
6.0000E-02	2.4532E-09	3.2777E-07	1.3780E-02	2.3378E+00	3.7181E+02	1.9180E+02	1.5148E+04
7.0000E-02	2.8345E-09	3.6901E-07	1.4224E-02	2.4300E+00	3.9109E+02	2.2152E+02	1.7566E+04
8.0000E-02	3.2560E-09	3.8526E-07	1.4672E-02	2.5066E+00	4.0612E+02	2.5048E+02	2.0287E+04
9.0000E-02	3.6763E-09	3.9251E-07	1.4927E-02	2.5710E+00	4.1803E+02	2.7070E+02	2.3041E+04
1.0000E-01	4.0491E-09	3.8427E-07	1.5023E-02	2.5945E+00	4.2738E+02	2.7843E+02	2.5523E+04
1.1000E-01	4.3342E-09	3.6483E-07	1.4889E-02	2.5714E+00	4.1987E+02	2.7494E+02	2.7454E+04
1.2000E-01	4.5057E-09	3.4072E-07	1.4889E-02	2.5113E+00	4.1002E+02	2.6030E+02	2.8639E+04
1.3000E-01	4.5547E-09	3.1780E-07	1.4565E-02	2.4287E+00	3.9580E+02	2.3784E+02	2.9007E+04
1.4000E-01	4.4891E-09	3.0148E-07	1.4133E-02	2.3444E+00	3.8458E+02	2.1576E+02	2.8594E+04
1.5000E-01	4.3284E-09	2.8421E-07	1.3689E-02	2.2747E+00	3.7159E+02	1.8816E+02	2.7522E+04
1.6000E-01	4.0984E-09	2.6476E-07	1.3069E-02	2.2280E+00	3.6299E+02	1.6313E+02	2.5970E+04
1.7000E-01	3.8260E-09	3.0252E-07	1.3069E-02	2.2105E+00	3.6012E+02	1.4196E+02	2.4118E+04
1.8000E-01	3.5349E-09	3.1539E-07	1.2876E-02	2.2188E+00	3.6111E+02	1.2331E+02	2.2131E+04
1.9000E-01	3.2444E-09	3.3112E-07	1.3040E-02	2.2582E+00	3.6702E+02	1.0877E+02	2.0143E+04
2.0000E-01	2.9679E-09	3.4868E-07	1.3243E-02	2.3157E+00	3.7685E+02	9.7795E+01	1.8244E+04
2.1000E-01	2.7139E-09	3.6562E-07	1.3559E-02	2.3855E+00	3.8810E+02	8.6324E+01	1.6501E+04
2.2000E-01	2.4868E-09	3.8173E-07	1.3961E-02	2.4687E+00	4.0009E+02	7.5488E+01	1.4940E+04
2.3000E-01	2.2878E-09	3.9750E-07	1.4419E-02	2.5535E+00	4.1518E+02	6.4290E+01	1.3567E+04
2.4000E-01	2.1161E-09	4.1202E-07	1.4910E-02	2.6432E+00	4.2879E+02	5.4680E+01	1.2380E+04
2.5000E-01	1.9696E-09	4.2429E-07	1.5419E-02	2.7297E+00	4.4236E+02	4.5860E+01	1.1368E+04
2.6000E-01	1.8456E-09	4.3623E-07	1.5924E-02	2.8091E+00	4.5739E+02	3.7680E+01	1.0505E+04
2.7000E-01	1.7411E-09	4.4787E-07	1.6418E-02	2.8971E+00	4.7398E+02	3.0270E+01	9.7723E+03
2.8000E-01	1.6534E-09	4.5724E-07	1.6899E-02	2.9717E+00	4.9248E+02	2.3745E+01	9.1580E+03
2.9000E-01	1.5793E-09	4.6640E-07	1.7361E-02	3.0523E+00	5.1300E+02	1.7435E+01	8.6360E+03
3.0000E-01	1.5170E-09	4.7561E-07	1.7804E-02	3.1272E+00	5.3654E+02	1.1283E+01	8.1901E+03
3.1000E-01	1.4642E-09	4.8368E-07	1.8218E-02	3.1931E+00	5.6299E+02	5.3269E+01	7.8113E+03
3.2000E-01	1.4193E-09	4.9103E-07	1.8618E-02	3.2571E+00	5.9095E+02	3.2887E+01	7.4869E+03
3.3000E-01	1.3808E-09	4.9854E-07	1.8998E-02	3.3176E+00	6.1995E+02	2.2514E+01	7.2040E+03
3.4000E-01	1.3476E-09	5.0583E-07	1.9353E-02	3.3744E+00	6.5056E+02	1.49647E+01	6.9564E+03
3.5000E-01	1.3186E-09	5.1188E-07	1.9692E-02	3.4315E+00	6.8268E+02	4.9420E+01	6.7418E+03
3.6000E-01	1.2932E-09	5.1812E-07	2.0014E-02	3.4838E+00	7.1593E+02	4.9178E+01	6.5498E+03
3.7000E-01	1.2707E-09	5.2448E-07	2.0319E-02	3.5341E+00	7.5005E+02	4.8921E+01	6.3764E+03
3.8000E-01	1.2506E-09	5.2977E-07	2.0608E-02	3.5805E+00	7.8544E+02	4.8639E+01	6.2320E+03
3.9000E-01	1.2326E-09	5.3496E-07	2.0883E-02	3.6249E+00	8.2214E+02	4.8475E+01	6.0837E+03
4.0000E-01	1.2162E-09	5.4027E-07	2.1144E-02	3.6677E+00	8.6011E+02	4.8379E+01	5.9551E+03
4.1000E-01	1.2014E-09	5.4512E-07	2.1391E-02	3.7079E+00	9.0000E+02	4.8300E+01	5.8379E+03
4.2000E-01	1.1878E-09	5.4941E-07	2.1628E-02	3.7466E+00	9.4199E+02	4.8260E+01	5.7312E+03
4.3000E-01	1.1753E-09	5.5381E-07	2.1846E-02	3.7819E+00	9.8595E+02	4.8270E+01	5.6313E+03
4.4000E-01	1.1638E-09	5.5820E-07	2.2060E-02	3.8167E+00	1.0329E+03	4.8330E+01	5.5378E+03
4.5000E-01	1.1531E-09	5.6172E-07	2.2260E-02	3.8486E+00	1.0839E+03	4.8441E+01	5.4533E+03
4.6000E-01	1.1432E-09	5.6534E-07	2.2450E-02	3.8783E+00	1.1389E+03	4.8602E+01	5.3736E+03

4.7000E-01 1.1340E-09 5.6902E-07 2.2829E-02 3.8088E+00 6.3629E+02 4.2246E+01 5.2981E+03  
4.8000E-01 1.254E-07 5.7216E-07 2.2789E-02 3.9381E+00 6.3984E+02 4.0948E+01 5.2289E+03  
5.0000E-01 1.173E-09 5.7512E-07 2.2960E-02 3.8619E+00 6.4456E+02 4.0889E+01 5.1641E+03  
5.1000E-01 1.108E-09 5.7813E-07 2.3112E-02 3.9868E+00 6.4890E+02 4.0814E+01 5.1026E+03  
5.2000E-01 1.028E-09 5.8066E-07 2.3256E-02 4.0102E+00 6.5199E+02 3.9728E+01 5.0450E+03  
5.3000E-01 1.0962E-09 5.8338E-07 2.3392E-02 4.0318E+00 6.5589E+02 3.9690E+01 4.9920E+03  
5.4000E-01 1.0842E-09 5.8582E-07 2.3520E-02 4.0528E+00 6.5956E+02 3.9638E+01 4.9416E+03  
5.5000E-01 1.0788E-09 5.8830E-07 2.3641E-02 4.0725E+00 6.6300E+02 3.9572E+01 4.8935E+03  
5.6000E-01 1.0737E-09 5.9028E-07 2.3755E-02 4.0906E+00 6.6545E+02 3.8710E+01 4.8498E+03  
5.7000E-01 1.0689E-09 5.9227E-07 2.3863E-02 4.1080E+00 6.6833E+02 3.8675E+01 4.8033E+03  
5.8000E-01 1.0645E-09 5.9428E-07 2.3965E-02 4.1245E+00 6.7142E+02 3.8628E+01 4.7688E+03  
5.9000E-01 1.0602E-09 5.9626E-07 2.4060E-02 4.1399E+00 6.7347E+02 3.7911E+01 4.7321E+03  
6.0000E-01 1.0563E-09 5.9767E-07 2.4151E-02 4.1544E+00 6.7606E+02 3.7889E+01 4.6979E+03  
6.1000E-01 1.0526E-09 5.9931E-07 2.4238E-02 4.1681E+00 6.7848E+02 3.7857E+01 4.6653E+03  
6.2000E-01 1.0491E-09 6.0089E-07 2.4316E-02 4.1812E+00 6.8019E+02 3.7265E+01 4.6346E+03  
6.3000E-01 1.0458E-09 6.0219E-07 2.4391E-02 4.1931E+00 6.8235E+02 3.7250E+01 4.6058E+03  
6.4000E-01 1.0428E-09 6.0486E-07 2.4462E-02 4.2046E+00 6.8438E+02 3.7229E+01 4.5797E+03  
6.5000E-01 1.0399E-09 6.0598E-07 2.4529E-02 4.2155E+00 6.8628E+02 3.7205E+01 4.5542E+03  
6.6000E-01 1.0372E-09 6.0703E-07 2.4581E-02 4.2255E+00 6.8792E+02 3.6732E+01 4.5309E+03  
6.7000E-01 1.0347E-09 6.0812E-07 2.4617E-02 4.2350E+00 6.8931E+02 3.6715E+01 4.5089E+03  
6.8000E-01 1.0323E-09 6.0916E-07 2.4707E-02 4.2441E+00 6.9059E+02 3.6700E+01 4.4879E+03  
6.9000E-01 1.0301E-09 6.0997E-07 2.4759E-02 4.2525E+00 6.9201E+02 3.6373E+01 4.4684E+03  
7.0000E-01 1.0281E-09 6.1085E-07 2.4809E-02 4.2604E+00 6.9343E+02 3.6307E+01 4.4504E+03  
7.1000E-01 1.0261E-09 6.1085E-07 2.4855E-02 4.2679E+00 6.9475E+02 3.6295E+01 4.4332E+03  
7.2000E-01 1.0243E-09 6.1173E-07 2.4899E-02 4.2750E+00 6.9568E+02 3.5977E+01 4.4170E+03  
7.3000E-01 1.0226E-09 6.1243E-07 2.4940E-02 4.2815E+00 6.9686E+02 3.5975E+01 4.4023E+03  
7.4000E-01 1.0210E-09 6.1314E-07 2.4979E-02 4.2877E+00 6.9797E+02 3.5969E+01 4.3883E+03  
7.5000E-01 1.0196E-09 6.1387E-07 2.5018E-02 4.2937E+00 6.9900E+02 3.5959E+01 4.3749E+03  
7.6000E-01 1.0182E-09 6.1449E-07 2.5049E-02 4.2992E+00 6.9974E+02 3.5709E+01 4.3628E+03  
7.7000E-01 1.0169E-09 6.1586E-07 2.5082E-02 4.3044E+00 7.0066E+02 3.5708E+01 4.3514E+03  
7.8000E-01 1.0157E-09 6.1622E-07 2.5112E-02 4.3093E+00 7.0153E+02 3.5703E+01 4.3405E+03  
7.9000E-01 1.0146E-09 6.1669E-07 2.5141E-02 4.3140E+00 7.0214E+02 3.5498E+01 4.3212E+03  
8.0000E-01 1.0136E-09 6.1719E-07 2.5194E-02 4.3183E+00 7.0292E+02 3.5496E+01 4.3125E+03  
8.1000E-01 1.0126E-09 6.1787E-07 2.5218E-02 4.3224E+00 7.0333E+02 3.5494E+01 4.3041E+03  
8.2000E-01 1.0117E-09 6.1807E-07 2.5240E-02 4.3264E+00 7.0433E+02 3.5494E+01 4.2967E+03  
8.3000E-01 1.0109E-09 6.1847E-07 2.5262E-02 4.3334E+00 7.0482E+02 3.5332E+01 4.2896E+03  
8.4000E-01 1.0094E-09 6.1888E-07 2.5282E-02 4.3367E+00 7.0543E+02 3.5334E+01 4.2829E+03  
8.5000E-01 1.0079E-09 6.1924E-07 2.5301E-02 4.3398E+00 7.0624E+02 3.5199E+01 4.2767E+03  
8.6000E-01 1.0075E-09 6.1957E-07 2.5319E-02 4.3427E+00 7.0694E+02 3.5205E+01 4.2711E+03  
8.7000E-01 1.0071E-09 6.1990E-07 2.5336E-02 4.3482E+00 7.0743E+02 3.5205E+01 4.2657E+03  
8.8000E-01 1.0070E-09 6.2031E-07 2.5358E-02 4.3482E+00 7.0778E+02 3.5095E+01 4.2606E+03  
8.9000E-01 1.0065E-09 6.2079E-07 2.5388E-02 4.3506E+00 7.0822E+02 3.5106E+01 4.2561E+03  
9.0000E-01 1.0061E-09 6.2108E-07 2.5397E-02 4.3530E+00 7.0884E+02 3.5106E+01 4.2518E+03  
9.1000E-01 1.0057E-09 6.2132E-07 2.5397E-02 4.3553E+00 7.0944E+02 3.5106E+01 4.2477E+03  
9.2000E-01 1.0053E-09 6.2156E-07 2.5410E-02 4.3574E+00 7.0992E+02 3.5020E+01 4.2441E+03  
9.3000E-01 1.0049E-09 6.2180E-07 2.5422E-02 4.3594E+00 7.1032E+02 3.5026E+01 4.2406E+03  
9.4000E-01 1.0046E-09 6.2203E-07 2.5434E-02 4.3614E+00 7.1072E+02 3.5031E+01 4.2374E+03  
9.5000E-01 1.0043E-09 6.2223E-07 2.5445E-02 4.3632E+00 7.1072E+02 3.4956E+01 4.2344E+03  
9.6000E-01 1.0041E-09 6.2243E-07 2.5456E-02 4.3649E+00 7.1058E+02 3.4963E+01 4.2317E+03  
9.7000E-01 1.0038E-09 6.2264E-07 2.5466E-02 4.3666E+00 7.1087E+02 3.4970E+01 4.2292E+03  
9.8000E-01 1.0036E-09 6.2284E-07 2.5476E-02 4.3683E+00 7.1108E+02 3.4906E+01 4.2267E+03  
9.9000E-01 1.0034E-09 6.2299E-07 2.5485E-02 4.3697E+00 7.1136E+02 3.4914E+01 4.2246E+03  
1.0000E+00 1.0034E-09 6.2299E-07 2.5494E-02 4.3712E+00 7.1161E+02 3.4921E+01 4.2226E+03

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E-02	2.5600E+01	7.4400E+01	1.7140E+00
1.8280E+02	2.1589E-10	3.3566E+03	2.7800E+01	1.7760E-06	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E+01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	0.0000E+00						
0.0000E+00	0.0000E+00	2.0000E+01	0.0000E+00	1.0000E+01	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E-02	-3.9281E+01	1.9103E+01	3.4787E-07	1.0000E+01	3.4432E-06	1.4551E-07	-9.2483E-05
2.0000E-02	5.3696E+01	1.9269E+01	6.6382E-07	1.0000E+01	1.1926E-05	2.2175E-07	-7.6141E-05
3.0000E-02	6.8933E+01	1.9917E+01	9.6571E-07	1.0000E+01	1.6988E-05	3.6713E-07	-4.9185E-05
4.0000E-02	8.3251E+01	2.0582E+01	1.2581E-06	1.0000E+01	1.8687E-05	5.4611E-07	-4.4651E-05
5.0000E-02	5.7234E+01	2.1182E+01	1.5409E-06	1.0000E+01	1.9662E-05	7.3900E-07	-3.2295E-05
6.0000E-02	5.4755E+01	2.1739E+01	1.8137E-06	1.0000E+01	1.9886E-05	9.3766E-07	-2.2350E-05
7.0000E-02	5.5678E+01	2.2289E+01	2.0170E-06	1.0000E+01	1.9924E-05	1.1362E-06	-1.4441E-05
8.0000E-02	5.5976E+01	2.2659E+01	2.3314E-06	1.0000E+01	1.9703E-05	1.3338E-06	-3.4756E-06
9.0000E-02	5.5936E+01	2.3491E+01	2.5784E-06	1.0000E+01	1.9012E-05	1.7292E-06	5.0122E-07
1.0000E-01	7.2161E+01	2.4179E+01	2.8195E-06	1.0000E+01	2.0012E-05	1.9320E-06	3.7702E-06
1.0000E-01	7.8947E+01	2.4935E+01	3.0563E-06	1.0000E+01	2.0560E-05	2.1415E-06	6.5224E-06
1.0000E-01	8.5111E+01	2.5756E+01	3.2927E-06	1.0000E+01	2.1329E-05	2.3585E-06	8.8022E-06
1.0000E-01	9.0062E+01	2.6633E+01	3.5227E-06	1.0000E+01	2.2149E-05	2.5877E-06	1.0495E-05
1.0000E-01	9.3340E+01	2.7552E+01	3.7546E-06	1.0000E+01	2.2644E-05	2.8170E-06	1.1827E-05
1.0000E-01	9.4640E+01	2.8493E+01	3.9866E-06	1.0000E+01	2.3089E-05	3.0437E-06	1.2702E-05
1.0000E-01	9.3878E+01	2.9437E+01	4.2108E-06	1.0000E+01	2.3202E-05	3.2746E-06	1.3151E-05
1.0000E-01	9.1162E+01	3.0364E+01	4.4512E-06	1.0000E+01	2.2952E-05	3.5020E-06	1.3287E-05
1.0000E-01	8.6794E+01	3.1255E+01	4.6633E-06	1.0000E+01	2.2471E-05	3.7231E-06	1.3140E-05
1.0000E-01	8.1178E+01	3.2096E+01	4.9143E-06	1.0000E+01	2.1734E-05	3.9364E-06	1.2783E-05
2.0000E-01	7.4750E+01	3.2876E+01	5.1432E-06	1.0000E+01	2.0813E-05	4.1403E-06	1.2385E-05
2.0000E-01	6.7980E+01	3.3590E+01	5.3691E-06	1.0000E+01	1.9954E-05	4.3342E-06	1.1819E-05
2.0000E-01	6.1221E+01	3.4236E+01	5.5911E-06	1.0000E+01	1.8898E-05	4.5180E-06	1.1212E-05
2.0000E-01	5.4724E+01	3.4815E+01	5.8081E-06	1.0000E+01	1.7806E-05	4.6917E-06	1.0711E-05
2.0000E-01	4.8701E+01	3.5337E+01	6.0194E-06	1.0000E+01	1.6945E-05	4.8554E-06	1.0111E-05
2.0000E-01	4.3291E+01	3.5791E+01	6.2243E-06	1.0000E+01	1.5921E-05	5.0098E-06	9.5369E-06
2.0000E-01	3.8423E+01	3.6199E+01	6.4223E-06	1.0000E+01	1.4871E-05	5.1853E-06	8.9968E-06
2.0000E-01	3.4238E+01	3.6593E+01	6.5131E-06	1.0000E+01	1.4028E-05	5.2973E-06	8.5937E-06
2.0000E-01	3.0632E+01	3.6887E+01	6.5963E-06	1.0000E+01	1.3349E-05	5.4216E-06	8.1231E-06
3.0000E-01	2.7519E+01	3.7177E+01	6.6720E-06	1.0000E+01	1.2539E-05	5.5435E-06	7.6673E-06
3.0000E-01	2.4829E+01	3.7482E+01	6.7400E-06	1.0000E+01	1.1783E-05	5.6586E-06	7.3689E-06
3.0000E-01	2.2548E+01	3.7890E+01	7.3005E-06	1.0000E+01	1.1231E-05	5.7673E-06	6.9906E-06
3.0000E-01	2.0603E+01	3.8088E+01	7.5994E-06	1.0000E+01	1.0564E-05	5.8699E-06	6.6385E-06
3.0000E-01	1.8903E+01	3.8269E+01	7.7382E-06	1.0000E+01	9.9397E-06	5.9669E-06	6.3825E-06
3.0000E-01	1.7417E+01	3.8437E+01	7.8702E-06	1.0000E+01	9.4847E-06	6.0585E-06	6.0721E-06
3.0000E-01	1.6152E+01	3.8592E+01	7.9956E-06	1.0000E+01	8.4067E-06	6.1452E-06	5.7810E-06
3.0000E-01	1.3975E+01	3.8737E+01	8.1148E-06	1.0000E+01	7.9149E-06	6.2271E-06	5.5073E-06
3.0000E-01	1.3071E+01	3.8873E+01	8.2280E-06	1.0000E+01	7.5574E-06	6.3046E-06	5.3087E-06
3.0000E-01	1.2241E+01	3.8995E+01	8.3355E-06	1.0000E+01	7.1156E-06	6.3778E-06	5.0532E-06
4.0000E-01	1.1460E+01	3.9117E+01	8.4374E-06	1.0000E+01	6.6987E-06	6.4470E-06	4.8317E-06
4.0000E-01	1.0765E+01	3.9229E+01	8.5341E-06	1.0000E+01	6.3957E-06	6.5155E-06	4.6635E-06
4.0000E-01	1.0093E+01	3.9335E+01	8.6259E-06	1.0000E+01	6.1024E-06	6.5793E-06	4.4549E-06
4.0000E-01	9.4660E+00	3.9430E+01	8.7129E-06	1.0000E+01	5.8662E-06	6.6328E-06	4.2579E-06
4.0000E-01	8.8640E+00	3.9522E+01	8.7954E-06	1.0000E+01	5.4088E-06	6.6881E-06	4.1147E-06
4.0000E-01	8.3272E+00	3.9608E+01	8.8736E-06	1.0000E+01	5.0900E-06	6.7403E-06	3.9373E-06
4.0000E-01	7.8046E+00	3.9688E+01	8.9477E-06	1.0000E+01	4.7893E-06	6.7897E-06	3.7699E-06

4.7000E-01	3.9784E+01	9.0178E-06	1.0000E+01	4.5059E-06	6.8363E-06	3.6121E-06
4.8000E-01	3.9835E+00	9.0843E-06	1.0000E+01	4.3008E-06	6.8804E-06	3.4978E-06
4.9000E-01	3.9901E+01	9.1473E-06	1.0000E+01	4.0463E-06	6.9220E-06	3.3561E-06
5.0000E-01	3.9962E+01	9.2069E-06	1.0000E+01	3.8067E-06	6.9613E-06	3.2228E-06
5.1000E-01	4.0020E+01	9.2633E-06	1.0000E+01	3.6334E-06	6.9985E-06	3.1263E-06
5.2000E-01	4.0073E+01	9.3167E-06	1.0000E+01	3.4188E-06	7.0336E-06	3.0068E-06
5.3000E-01	4.0123E+01	9.3672E-06	1.0000E+01	3.2169E-06	7.0668E-06	2.8946E-06
5.4000E-01	4.0169E+01	9.4150E-06	1.0000E+01	3.0272E-06	7.0982E-06	2.7891E-06
5.5000E-01	4.0212E+01	9.4601E-06	1.0000E+01	2.8905E-06	7.1278E-06	2.7132E-06
5.6000E-01	4.0252E+01	9.5028E-06	1.0000E+01	2.7210E-06	7.1558E-06	2.6191E-06
5.7000E-01	4.0288E+01	9.5431E-06	1.0000E+01	2.5619E-06	7.1823E-06	2.5308E-06
5.8000E-01	4.0323E+01	9.5811E-06	1.0000E+01	2.4472E-06	7.2074E-06	2.4672E-06
5.9000E-01	4.0353E+01	9.6170E-06	1.0000E+01	2.3053E-06	7.2311E-06	2.3885E-06
6.0000E-01	4.0387E+01	9.6508E-06	1.0000E+01	2.1771E-06	7.2535E-06	2.3148E-06
6.1000E-01	4.0408E+01	9.6828E-06	1.0000E+01	2.0761E-06	7.2747E-06	2.2617E-06
6.2000E-01	4.0431E+01	9.7129E-06	1.0000E+01	1.9575E-06	7.2946E-06	2.1961E-06
6.3000E-01	4.0453E+01	9.7413E-06	1.0000E+01	1.8422E-06	7.3138E-06	2.1347E-06
6.4000E-01	4.0472E+01	9.7680E-06	1.0000E+01	1.7430E-06	7.3318E-06	2.0771E-06
6.5000E-01	4.0490E+01	9.7931E-06	1.0000E+01	1.6670E-06	7.3486E-06	2.0358E-06
6.6000E-01	4.0506E+01	9.8168E-06	1.0000E+01	1.5742E-06	7.3650E-06	1.9846E-06
6.7000E-01	4.0520E+01	9.8390E-06	1.0000E+01	1.4972E-06	7.3804E-06	1.9367E-06
6.8000E-01	4.0532E+01	9.8598E-06	1.0000E+01	1.4246E-06	7.3949E-06	1.9024E-06
6.9000E-01	4.0543E+01	9.8794E-06	1.0000E+01	1.3472E-06	7.4087E-06	1.8588E-06
7.0000E-01	4.0553E+01	9.8978E-06	1.0000E+01	1.2746E-06	7.4218E-06	1.8199E-06
7.1000E-01	4.0562E+01	9.9151E-06	1.0000E+01	1.2244E-06	7.4343E-06	1.7912E-06
7.2000E-01	4.0569E+01	9.9312E-06	1.0000E+01	1.1578E-06	7.4462E-06	1.7558E-06
7.3000E-01	4.0575E+01	9.9463E-06	1.0000E+01	1.0973E-06	7.4574E-06	1.7225E-06
7.4000E-01	4.0580E+01	9.9604E-06	1.0000E+01	1.0405E-06	7.4681E-06	1.6914E-06
7.5000E-01	4.0584E+01	9.9737E-06	1.0000E+01	9.9864E-07	7.4784E-06	1.6691E-06
7.6000E-01	4.0588E+01	9.9860E-06	1.0000E+01	9.4903E-07	7.4881E-06	1.6414E-06
7.7000E-01	4.0592E+01	9.9975E-06	1.0000E+01	9.0153E-07	7.4973E-06	1.6153E-06
7.8000E-01	4.0596E+01	1.0008E-05	1.0000E+01	8.6732E-07	7.5062E-06	1.5937E-06
7.9000E-01	4.0599E+01	1.0018E-05	1.0000E+01	8.2492E-07	7.5146E-06	1.5735E-06
8.0000E-01	4.0594E+01	1.0027E-05	1.0000E+01	7.8509E-07	7.5227E-06	1.5517E-06
8.1000E-01	4.0593E+01	1.0036E-05	1.0000E+01	7.4785E-07	7.5304E-06	1.5312E-06
8.2000E-01	4.0592E+01	1.0044E-05	1.0000E+01	7.2071E-07	7.5377E-06	1.5166E-06
8.3000E-01	4.0592E+01	1.0052E-05	1.0000E+01	6.8719E-07	7.5447E-06	1.4983E-06
8.4000E-01	4.0592E+01	1.0058E-05	1.0000E+01	6.5564E-07	7.5515E-06	1.4810E-06
8.5000E-01	4.0588E+01	1.0065E-05	1.0000E+01	6.3290E-07	7.5579E-06	1.4687E-06
8.6000E-01	4.0586E+01	1.0071E-05	1.0000E+01	6.0457E-07	7.5641E-06	1.4532E-06
8.7000E-01	4.0583E+01	1.0076E-05	1.0000E+01	5.7785E-07	7.5700E-06	1.4386E-06
8.8000E-01	4.0581E+01	1.0081E-05	1.0000E+01	5.5856E-07	7.5757E-06	1.4281E-06
8.9000E-01	4.0577E+01	1.0085E-05	1.0000E+01	5.3449E-07	7.5811E-06	1.4150E-06
9.0000E-01	4.0574E+01	1.0090E-05	1.0000E+01	5.1176E-07	7.5864E-06	1.4026E-06
9.1000E-01	4.0571E+01	1.0093E-05	1.0000E+01	4.9026E-07	7.5914E-06	1.3908E-06
9.2000E-01	4.0567E+01	1.0097E-05	1.0000E+01	4.7474E-07	7.5962E-06	1.3824E-06
9.3000E-01	4.0563E+01	1.0100E-05	1.0000E+01	4.5527E-07	7.6009E-06	1.3718E-06
9.4000E-01	4.0559E+01	1.0103E-05	1.0000E+01	4.3683E-07	7.6053E-06	1.3617E-06
9.5000E-01	4.0555E+01	1.0106E-05	1.0000E+01	4.2348E-07	7.6096E-06	1.3544E-06
9.6000E-01	4.0551E+01	1.0108E-05	1.0000E+01	4.0670E-07	7.6138E-06	1.3453E-06
9.7000E-01	4.0547E+01	1.0110E-05	1.0000E+01	3.9077E-07	7.6177E-06	1.3355E-06
9.8000E-01	4.0543E+01	1.0112E-05	1.0000E+01	3.7921E-07	7.6216E-06	1.3303E-06
9.9000E-01	4.0539E+01	1.0114E-05	1.0000E+01	3.6466E-07	7.6253E-06	1.3223E-06
1.0000E+00	4.0535E+01	1.0115E-05	1.0000E+01	3.5080E-07	7.6289E-06	1.3147E-06



ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE	27 VARIABLE	28 VARIABLE
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.0000E-02	-1.0435E+02	-5.0137E+03	2.9772E+02	3.6571E+02	3.5600E+03	1.5295E-01	4.8579E+02
2.0000E-02	1.4251E+02	-7.8058E+03	2.8426E+02	3.2745E+02	3.5600E+03	1.0668E+00	4.1153E+02
3.0000E-02	1.3937E+02	-7.8259E+03	2.8541E+02	2.8876E+02	3.5600E+03	1.5558E+00	3.5854E+02
4.0000E-02	-1.1975E+02	-5.5499E+03	1.8958E+02	2.5084E+02	3.5600E+03	1.9190E+00	3.2509E+02
5.0000E-02	-9.3711E+01	-4.1342E+03	1.3594E+02	2.1728E+02	3.5600E+03	2.3034E+00	3.0348E+02
6.0000E-02	-7.2507E+01	-3.1915E+03	1.3594E+02	1.9002E+02	3.5600E+03	2.7555E+00	2.9296E+02
7.0000E-02	-5.2252E+01	-2.1323E+03	1.1832E+02	1.6957E+02	3.5600E+03	3.2844E+00	2.8920E+02
8.0000E-02	-3.5467E+01	-1.2866E+03	9.7545E+01	1.5584E+02	3.5600E+03	3.8765E+00	2.9208E+02
9.0000E-02	-2.1872E+01	-6.1613E+02	9.2591E+01	1.4734E+02	3.5600E+03	4.4974E+00	2.9702E+02
1.0000E-01	-1.0904E+01	-2.0313E+02	9.0393E+01	1.4493E+02	3.5600E+03	5.1026E+00	3.0136E+02
1.2000E-01	5.3605E+00	2.5466E+02	9.0409E+01	1.4973E+02	3.5600E+03	5.6459E+00	3.0475E+02
1.4000E-01	1.1412E+01	6.2858E+02	9.2240E+01	1.5796E+02	3.5600E+03	6.4077E+00	3.0641E+02
1.6000E-01	1.6344E+01	8.5687E+02	9.5575E+01	1.6932E+02	3.5600E+03	6.5937E+00	3.1015E+02
1.8000E-01	2.0243E+01	1.1042E+03	1.0017E+02	1.8343E+02	3.5600E+03	6.6529E+00	3.1296E+02
2.0000E-01	2.3159E+01	1.2871E+03	1.0559E+02	1.9987E+02	3.5600E+03	6.6023E+00	3.1819E+02
2.2000E-01	2.5163E+01	1.3846E+03	1.1173E+02	2.1815E+02	3.5600E+03	6.4637E+00	3.2631E+02
2.4000E-01	2.6349E+01	1.4667E+03	1.1832E+02	2.3779E+02	3.5600E+03	6.2586E+00	3.3640E+02
2.6000E-01	2.6759E+01	1.5017E+03	1.2514E+02	2.5825E+02	3.5600E+03	6.0101E+00	3.4877E+02
2.8000E-01	2.6251E+01	1.4788E+03	1.3201E+02	2.7905E+02	3.5600E+03	5.7355E+00	3.6283E+02
3.0000E-01	2.5400E+01	1.4318E+03	1.3879E+02	2.9877E+02	3.5600E+03	5.4498E+00	3.7852E+02
3.2000E-01	2.4309E+01	1.3718E+03	1.4540E+02	3.2007E+02	3.5600E+03	5.1633E+00	3.9202E+02
3.4000E-01	2.3316E+01	1.3218E+03	1.5175E+02	3.3971E+02	3.5600E+03	4.8832E+00	4.0767E+02
3.6000E-01	2.2188E+01	1.2528E+03	1.5355E+02	3.5822E+02	3.5600E+03	4.6147E+00	4.2142E+02
3.8000E-01	2.1034E+01	1.1833E+03	1.5898E+02	3.7640E+02	3.5600E+03	4.3614E+00	4.3642E+02
4.0000E-01	1.9933E+01	1.1162E+03	1.7409E+02	4.0927E+02	3.5600E+03	4.1237E+00	4.5085E+02
4.2000E-01	1.8877E+01	1.0682E+03	1.7889E+02	4.2429E+02	3.5600E+03	3.9023E+00	4.6462E+02
4.4000E-01	1.7887E+01	1.0079E+03	1.8341E+02	4.3844E+02	3.5600E+03	3.6981E+00	4.7621E+02
4.6000E-01	1.6966E+01	9.5180E+02	1.8766E+02	4.5178E+02	3.5600E+03	3.5095E+00	4.8866E+02
4.8000E-01	1.6109E+01	9.1253E+02	1.9167E+02	4.6431E+02	3.5600E+03	3.3354E+00	5.0044E+02
5.0000E-01	1.5310E+01	8.6366E+02	1.9544E+02	4.7615E+02	3.5600E+03	3.1757E+00	5.1032E+02
5.2000E-01	1.4570E+01	8.1847E+02	1.9899E+02	4.8734E+02	3.5600E+03	3.0291E+00	5.2094E+02
5.4000E-01	1.3880E+01	7.8677E+02	2.0235E+02	4.9792E+02	3.5600E+03	2.8942E+00	5.3099E+02
5.6000E-01	1.3232E+01	7.4714E+02	2.0551E+02	5.0792E+02	3.5600E+03	2.7702E+00	5.3943E+02
5.8000E-01	1.2626E+01	7.1022E+02	2.0850E+02	5.1740E+02	3.5600E+03	2.6567E+00	5.4651E+02
6.0000E-01	1.2060E+01	6.7572E+02	2.1133E+02	5.2638E+02	3.5600E+03	2.5520E+00	5.5270E+02
6.2000E-01	1.1529E+01	6.5129E+02	2.1400E+02	5.3489E+02	3.5600E+03	2.4556E+00	5.5713E+02
6.4000E-01	1.1018E+01	6.2047E+02	2.1652E+02	5.4286E+02	3.5600E+03	2.3672E+00	5.6030E+02
6.6000E-01	1.0542E+01	5.9149E+02	2.1891E+02	5.5081E+02	3.5600E+03	2.2856E+00	5.7198E+02
6.8000E-01	1.0092E+01	5.7097E+02	2.2117E+02	5.5787E+02	3.5600E+03	2.2103E+00	5.8663E+02
7.0000E-01	9.6632E+00	5.4478E+02	2.2330E+02	5.6474E+02	3.5600E+03	2.1409E+00	5.9255E+02
7.2000E-01	9.2595E+00	5.2018E+02	2.2532E+02	5.7126E+02	3.5600E+03	2.0769E+00	5.9891E+02
7.4000E-01	8.8786E+00	5.0266E+02	2.2722E+02	5.7743E+02	3.5600E+03	2.0177E+00	6.0494E+02
7.6000E-01	8.5143E+00	4.8048E+02	2.2902E+02	5.828E+02	3.5600E+03	1.9627E+00	6.1002E+02
7.8000E-01	8.1710E+00	4.5956E+02	2.3079E+02	5.8801E+02	3.5600E+03	1.9122E+00	6.1547E+02
8.0000E-01	7.8460E+00	4.3980E+02	2.3253E+02	5.9298E+02	3.5600E+03	1.8653E+00	6.2062E+02

4. 7000E-01 7. 8476E+00 4. 3985E+02 2. 3234E+02 5. 9404E+02 3. 5600E+03 1. 8217E+00 6. 2550E+02  
4. 8000E-01 7. 5399E+00 4. 2582E+02 2. 3366E+02 5. 8999E+02 3. 5600E+03 1. 7815E+00 6. 2959E+02  
4. 9000E-01 7. 2486E+00 4. 0608E+02 2. 3596E+02 5. 8367E+02 3. 5600E+03 1. 7441E+00 6. 3397E+02  
5. 0000E-01 6. 9748E+00 3. 9138E+02 2. 3685E+02 5. 6905E+02 3. 5600E+03 1. 7093E+00 6. 3811E+02  
5. 1000E-01 6. 7157E+00 3. 7952E+02 2. 3793E+02 5. 6125E+02 3. 5600E+03 1. 6770E+00 6. 4158E+02  
5. 2000E-01 6. 4698E+00 3. 6453E+02 2. 3914E+02 5. 5025E+02 3. 5600E+03 1. 6471E+00 6. 4292E+02  
5. 3000E-01 6. 2387E+00 3. 5044E+02 2. 4039E+02 5. 3922E+02 3. 5600E+03 1. 6192E+00 6. 4878E+02  
5. 4000E-01 6. 0217E+00 3. 3724E+02 2. 4137E+02 5. 2834E+02 3. 5600E+03 1. 5931E+00 6. 5207E+02  
5. 5000E-01 5. 8151E+00 3. 2783E+02 2. 4239E+02 5. 1843E+02 3. 5600E+03 1. 5690E+00 6. 5483E+02  
5. 6000E-01 5. 6210E+00 3. 1600E+02 2. 4336E+02 5. 0855E+02 3. 5600E+03 1. 5465E+00 6. 5777E+02  
5. 7000E-01 5. 4390E+00 3. 0491E+02 2. 4427E+02 5. 0000E+02 3. 5600E+03 1. 5255E+00 6. 6054E+02  
5. 8000E-01 5. 2668E+00 2. 9704E+02 2. 4513E+02 5. 3556E+02 3. 5600E+03 1. 5055E+00 6. 6522E+02  
5. 9000E-01 5. 1044E+00 2. 8714E+02 2. 4595E+02 5. 2817E+02 3. 5600E+03 1. 4877E+00 6. 6784E+02  
6. 0000E-01 4. 9522E+00 2. 7786E+02 2. 4672E+02 5. 2062E+02 3. 5600E+03 1. 4707E+00 6. 6957E+02  
6. 1000E-01 4. 8092E+00 2. 7128E+02 2. 4745E+02 5. 1293E+02 3. 5600E+03 1. 4548E+00 6. 7164E+02  
6. 2000E-01 4. 6736E+00 2. 6301E+02 2. 4814E+02 5. 0510E+02 3. 5600E+03 1. 4400E+00 6. 7357E+02  
6. 3000E-01 4. 5468E+00 2. 5527E+02 2. 4880E+02 5. 0000E+02 3. 5600E+03 1. 4262E+00 6. 7539E+02  
6. 4000E-01 4. 4377E+00 2. 4802E+02 2. 4942E+02 5. 4908E+02 3. 5600E+03 1. 4132E+00 6. 7759E+02  
6. 5000E-01 4. 3150E+00 2. 4289E+02 2. 5000E+02 5. 5089E+02 3. 5600E+03 1. 4012E+00 6. 7991E+02  
6. 6000E-01 4. 2092E+00 2. 3644E+02 2. 5056E+02 5. 5259E+02 3. 5600E+03 1. 3899E+00 6. 7853E+02  
6. 7000E-01 4. 1102E+00 2. 3041E+02 2. 5109E+02 5. 5591E+02 3. 5600E+03 1. 3794E+00 6. 8005E+02  
6. 8000E-01 4. 0170E+00 2. 2614E+02 2. 5159E+02 5. 5707E+02 3. 5600E+03 1. 3695E+00 6. 8132E+02  
6. 9000E-01 3. 9289E+00 2. 2076E+02 2. 5208E+02 5. 5707E+02 3. 5600E+03 1. 3604E+00 6. 8267E+02  
7. 0000E-01 3. 8465E+00 2. 1574E+02 2. 5255E+02 5. 5845E+02 3. 5600E+03 1. 3517E+00 6. 8393E+02  
7. 1000E-01 3. 7693E+00 2. 1216E+02 2. 5295E+02 5. 5971E+02 3. 5600E+03 1. 3437E+00 6. 8499E+02  
7. 2000E-01 3. 6960E+00 2. 0771E+02 2. 5335E+02 5. 6095E+02 3. 5600E+03 1. 3362E+00 6. 8612E+02  
7. 3000E-01 3. 6273E+00 2. 0353E+02 2. 5374E+02 5. 6200E+02 3. 5600E+03 1. 3292E+00 6. 8717E+02  
7. 4000E-01 3. 5631E+00 1. 9861E+02 2. 5411E+02 5. 6304E+02 3. 5600E+03 1. 3226E+00 6. 8817E+02  
7. 5000E-01 3. 5023E+00 1. 9684E+02 2. 5446E+02 5. 6403E+02 3. 5600E+03 1. 3165E+00 6. 8900E+02  
7. 6000E-01 3. 4450E+00 1. 9334E+02 2. 5479E+02 5. 6495E+02 3. 5600E+03 1. 3054E+00 6. 8988E+02  
7. 7000E-01 3. 3914E+00 1. 9008E+02 2. 5511E+02 5. 6582E+02 3. 5600E+03 1. 2957E+00 6. 9071E+02  
7. 8000E-01 3. 3409E+00 1. 8776E+02 2. 5541E+02 5. 6665E+02 3. 5600E+03 1. 2873E+00 6. 9141E+02  
7. 9000E-01 3. 2931E+00 1. 8484E+02 2. 5570E+02 5. 6742E+02 3. 5600E+03 1. 2814E+00 6. 9215E+02  
8. 0000E-01 3. 2482E+00 1. 8211E+02 2. 5598E+02 5. 6815E+02 3. 5600E+03 1. 2735E+00 6. 9285E+02  
8. 1000E-01 3. 2061E+00 1. 7954E+02 2. 5624E+02 5. 6884E+02 3. 5600E+03 1. 2799E+00 6. 9404E+02  
8. 2000E-01 3. 1284E+00 1. 7772E+02 2. 5650E+02 5. 6949E+02 3. 5600E+03 1. 2835E+00 6. 9464E+02  
8. 3000E-01 3. 0930E+00 1. 7543E+02 2. 5697E+02 5. 7010E+02 3. 5600E+03 1. 2799E+00 6. 9520E+02  
8. 4000E-01 3. 0595E+00 1. 7174E+02 2. 5719E+02 5. 7088E+02 3. 5600E+03 1. 2735E+00 6. 9566E+02  
8. 5000E-01 3. 0277E+00 1. 6811E+02 2. 5740E+02 5. 7174E+02 3. 5600E+03 1. 2706E+00 6. 9616E+02  
8. 6000E-01 2. 9978E+00 1. 6498E+02 2. 5780E+02 5. 7269E+02 3. 5600E+03 1. 2679E+00 6. 9663E+02  
8. 7000E-01 2. 9696E+00 1. 6265E+02 2. 5799E+02 5. 7312E+02 3. 5600E+03 1. 2654E+00 6. 9702E+02  
8. 8000E-01 2. 9427E+00 1. 6050E+02 2. 5817E+02 5. 7354E+02 3. 5600E+03 1. 2630E+00 6. 9745E+02  
8. 9000E-01 2. 9174E+00 1. 5851E+02 2. 5834E+02 5. 7393E+02 3. 5600E+03 1. 2609E+00 6. 9785E+02  
9. 0000E-01 2. 8934E+00 1. 5651E+02 2. 5851E+02 5. 7430E+02 3. 5600E+03 1. 2588E+00 6. 9823E+02  
9. 1000E-01 2. 8706E+00 1. 5489E+02 2. 5867E+02 5. 7466E+02 3. 5600E+03 1. 2569E+00 6. 9855E+02  
9. 2000E-01 2. 8499E+00 1. 5342E+02 2. 5882E+02 5. 7499E+02 3. 5600E+03 1. 2551E+00 6. 9889E+02  
9. 3000E-01 2. 8284E+00 1. 5204E+02 2. 5897E+02 5. 7531E+02 3. 5600E+03 1. 2535E+00 6. 9921E+02  
9. 4000E-01 2. 8089E+00 1. 5075E+02 2. 5911E+02 5. 7555E+02 3. 5600E+03 1. 2520E+00 6. 9949E+02  
9. 5000E-01 2. 7903E+00 1. 4944E+02 2. 5911E+02 5. 7561E+02 3. 5600E+03 1. 2505E+00 6. 9979E+02  
9. 6000E-01 2. 7726E+00 1. 4825E+02 2. 5925E+02 5. 7590E+02 3. 5600E+03 1. 2492E+00 6. 9997E+02  
9. 7000E-01 2. 7558E+00 1. 4718E+02 2. 5938E+02 5. 7590E+02 3. 5600E+03 1. 2480E+00 7. 0031E+02  
9. 8000E-01 2. 7397E+00 1. 4615E+02 2. 5951E+02 5. 7644E+02 3. 5600E+03 1. 2468E+00 7. 0081E+02  
1. 0000E+00 2. 7243E+00 1. 4528E+02 2. 5963E+02 5. 7669E+02 3. 5600E+03 1. 2457E+00 7. 0081E+02

Appendix #34.

ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.000E+00	5.0500E+00	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.000E-01	5.0500E+00	-2.1322E-07	-1.8541E-03	-0.8150E-02	3.6962E-01	1.8019E+00	-3.2499E-08
2.000E-01	5.0500E+00	9.2714E-07	1.4333E-03	6.0179E-01	3.7271E-01	2.4653E+00	1.1003E-05
3.000E-01	5.0500E+00	1.8348E-06	8.0074E-03	9.5222E-01	3.8066E-01	2.8555E+00	1.4042E-05
4.000E-01	5.0500E+00	2.7615E-06	1.5085E-02	1.1379E+00	3.9121E-01	3.0839E+00	1.3741E-05
5.000E-01	5.0500E+00	3.4171E-06	2.1498E-02	1.2367E+00	4.0313E-01	3.2524E+00	1.2357E-05
6.000E-01	5.0500E+00	3.9249E-06	2.6871E-02	1.2887E+00	4.1579E-01	3.3877E+00	1.0737E-05
7.000E-01	5.0500E+00	4.3081E-06	3.1167E-02	1.3133E+00	4.2887E-01	3.4574E+00	9.1759E-06
8.000E-01	5.0500E+00	4.5870E-06	3.4477E-02	1.3201E+00	4.4200E-01	3.5301E+00	7.7734E-06
9.000E-01	5.0500E+00	4.7789E-06	3.6928E-02	1.3144E+00	4.5516E-01	3.5903E+00	6.5495E-06
1.000E+00	5.0500E+00	4.8988E-06	3.8650E-02	1.2992E+00	4.6825E-01	3.6405E+00	5.4919E-06
1.200E+00	5.0500E+00	4.9590E-06	3.9780E-02	1.2788E+00	4.8114E-01	3.6825E+00	4.5875E-06
1.400E+00	5.0500E+00	4.9703E-06	4.0362E-02	1.2487E+00	4.9377E-01	3.7178E+00	3.8146E-06
1.600E+00	5.0500E+00	4.9418E-06	4.0545E-02	1.2164E+00	5.0610E-01	3.7469E+00	3.1584E-06
1.800E+00	5.0500E+00	4.8807E-06	4.0386E-02	1.1808E+00	5.1809E-01	3.7712E+00	2.6059E-06
2.000E+00	5.0500E+00	4.7840E-06	3.9949E-02	1.1428E+00	5.2971E-01	3.7912E+00	2.1394E-06
2.200E+00	5.0500E+00	4.6538E-06	3.9289E-02	1.1031E+00	5.4094E-01	3.8078E+00	1.7445E-06
2.400E+00	5.0500E+00	4.4988E-06	3.8453E-02	1.0524E+00	5.5177E-01	3.8213E+00	1.4164E-06
2.600E+00	5.0500E+00	4.3285E-06	3.7438E-02	1.0011E+00	5.6216E-01	3.8321E+00	1.1451E-06
2.800E+00	5.0500E+00	4.1549E-06	3.6398E-02	9.7864E-01	5.7218E-01	3.8406E+00	9.1184E-07
3.000E+00	5.0500E+00	3.9808E-06	3.5240E-02	9.3827E-01	5.8178E-01	3.8472E+00	7.2059E-07
3.200E+00	5.0500E+00	3.8244E-06	3.4026E-02	8.9728E-01	5.9095E-01	3.8521E+00	5.6509E-07
3.400E+00	5.0500E+00	3.6674E-06	3.2776E-02	8.5687E-01	5.9972E-01	3.8555E+00	4.3204E-07
3.600E+00	5.0500E+00	3.5107E-06	3.1503E-02	8.1722E-01	6.0809E-01	3.8577E+00	3.2160E-07
3.800E+00	5.0500E+00	3.3555E-06	3.0222E-02	7.7844E-01	6.1607E-01	3.8588E+00	2.3342E-07
4.000E+00	5.0500E+00	3.2025E-06	2.8942E-02	7.4063E-01	6.2367E-01	3.8590E+00	1.6072E-07
4.200E+00	5.0500E+00	3.0524E-06	2.7672E-02	7.0387E-01	6.3089E-01	3.8593E+00	9.7209E-08
4.400E+00	5.0500E+00	2.9056E-06	2.6418E-02	6.6822E-01	6.3776E-01	3.8597E+00	4.7831E-08
4.600E+00	5.0500E+00	2.7625E-06	2.5187E-02	6.3371E-01	6.4426E-01	3.8550E+00	1.0311E-08
4.800E+00	5.0500E+00	2.6234E-06	2.3982E-02	6.0037E-01	6.5043E-01	3.8525E+00	-2.5464E-08
5.000E+00	5.0500E+00	2.4866E-06	2.2806E-02	5.6822E-01	6.5627E-01	3.8496E+00	-5.2541E-08
5.200E+00	5.0500E+00	2.3581E-06	2.1663E-02	5.3725E-01	6.6179E-01	3.8462E+00	-7.1867E-08
5.400E+00	5.0500E+00	2.2321E-06	2.0554E-02	5.0747E-01	6.6702E-01	3.8425E+00	-8.8928E-08
5.600E+00	5.0500E+00	2.1107E-06	1.9443E-02	4.7887E-01	6.7195E-01	3.8386E+00	-1.0312E-07
5.800E+00	5.0500E+00	1.9938E-06	1.8433E-02	4.5143E-01	6.7606E-01	3.8344E+00	-1.1207E-07
6.000E+00	5.0500E+00	1.8814E-06	1.7433E-02	4.2514E-01	6.8098E-01	3.8300E+00	-1.1782E-07
6.200E+00	5.0500E+00	1.7736E-06	1.6480E-02	3.9997E-01	6.8510E-01	3.8255E+00	-1.2455E-07
6.400E+00	5.0500E+00	1.6702E-06	1.5554E-02	3.7592E-01	6.8898E-01	3.8208E+00	-1.2756E-07
6.600E+00	5.0500E+00	1.5712E-06	1.4666E-02	3.5292E-01	6.9263E-01	3.8160E+00	-1.2763E-07
6.800E+00	5.0500E+00	1.4765E+00	1.3813E-02	3.3097E-01	6.9604E-01	3.8112E+00	-1.2896E-07
7.000E+00	5.0500E+00	1.3860E-06	1.2997E-02	3.1005E-01	6.9925E-01	3.8063E+00	-1.2858E-07
7.200E+00	5.0500E+00	1.2996E-06	1.2216E-02	2.9011E-01	7.0225E-01	3.8014E+00	-1.2615E-07
7.400E+00	5.0500E+00	1.2296E-06	1.1469E-02	2.7113E-01	7.0505E-01	3.7964E+00	-1.2362E-07
7.600E+00	5.0500E+00	1.1733E-06	1.0757E-02	2.5308E-01	7.0767E-01	3.7915E+00	-1.2132E-07
7.800E+00	5.0500E+00	1.1388E-06	1.0077E-02	2.3593E-01	7.1012E-01	3.7865E+00	-1.1758E-07
8.000E+00	5.0500E+00	1.0640E-06	9.4288E-03	2.1963E-01	7.1240E-01	3.7816E+00	-1.1295E-07

4.5000E-01	5.0500E+00	9.9292E-07	8.8118E-03	2.0417E-01	7.1451E-01	3.7767E+00	-1.0957E-07
4.8000E-01	5.0500E+00	9.2536E-07	8.2248E-03	1.8951E-01	7.1648E-01	3.7719E+00	-1.0521E-07
4.7000E-01	5.0500E+00	8.6120E-07	7.6669E-03	1.7563E-01	7.1831E-01	3.7672E+00	-1.0019E-07
4.8000E-01	5.0500E+00	8.0032E-07	7.1389E-03	1.6248E-01	7.2000E-01	3.7625E+00	-9.5717E-08
4.9000E-01	5.0500E+00	7.4280E-07	6.6340E-03	1.5005E-01	7.2158E-01	3.7578E+00	-9.1112E-08
5.0000E-01	5.0500E+00	6.8792E-07	6.1572E-03	1.3830E-01	7.2300E-01	3.7533E+00	-8.6135E-08
5.1000E-01	5.0500E+00	6.3617E-07	5.7054E-03	1.2720E-01	7.2433E-01	3.7488E+00	-8.1239E-08
5.2000E-01	5.0500E+00	5.8723E-07	5.2777E-03	1.1674E-01	7.2555E-01	3.7445E+00	-7.6608E-08
5.3000E-01	5.0500E+00	5.4098E-07	4.8732E-03	1.0687E-01	7.2668E-01	3.7402E+00	-7.1824E-08
5.4000E-01	5.0500E+00	4.9731E-07	4.4905E-03	9.7574E-02	7.2769E-01	3.7360E+00	-6.7077E-08
5.5000E-01	5.0500E+00	4.5612E-07	4.1295E-03	8.8878E-02	7.2862E-01	3.7319E+00	-6.2523E-08
5.6000E-01	5.0500E+00	4.1729E-07	3.7892E-03	8.0606E-02	7.2948E-01	3.7278E+00	-5.7998E-08
5.7000E-01	5.0500E+00	3.8073E-07	3.4681E-03	7.2863E-02	7.3023E-01	3.7240E+00	-5.3646E-08
5.8000E-01	5.0500E+00	3.4633E-07	3.1657E-03	6.5637E-02	7.3092E-01	3.7203E+00	-4.9363E-08
5.9000E-01	5.0500E+00	3.1400E-07	2.8812E-03	5.8844E-02	7.3155E-01	3.7166E+00	-4.5119E-08
6.0000E-01	5.0500E+00	2.8393E-07	2.6136E-03	5.2484E-02	7.3210E-01	3.7130E+00	-4.1150E-08
6.1000E-01	5.0500E+00	2.5515E-07	2.3624E-03	4.6535E-02	7.3260E-01	3.7095E+00	-3.7421E-08
6.2000E-01	5.0500E+00	2.2848E-07	2.1287E-03	4.0977E-02	7.3303E-01	3.7061E+00	-3.3451E-08
6.3000E-01	5.0500E+00	2.0347E-07	1.9057E-03	3.5790E-02	7.3342E-01	3.7028E+00	-2.9839E-08
6.4000E-01	5.0500E+00	1.8010E-07	1.6988E-03	3.0956E-02	7.3375E-01	3.6997E+00	-2.6658E-08
6.5000E-01	5.0500E+00	1.5828E-07	1.5053E-03	2.6457E-02	7.3404E-01	3.6966E+00	-2.3128E-08
6.6000E-01	5.0500E+00	1.3792E-07	1.3245E-03	2.2275E-02	7.3428E-01	3.6937E+00	-1.9836E-08
6.7000E-01	5.0500E+00	1.1895E-07	1.1559E-03	1.8394E-02	7.3448E-01	3.6908E+00	-1.7017E-08
6.8000E-01	5.0500E+00	1.0130E-07	9.9898E-04	1.4798E-02	7.3465E-01	3.6880E+00	-1.4188E-08
6.9000E-01	5.0500E+00	8.4900E-08	8.5241E-04	1.1470E-02	7.3478E-01	3.6854E+00	-1.1179E-08
7.0000E-01	5.0500E+00	6.9685E-08	7.1647E-04	8.3977E-03	7.3488E-01	3.6828E+00	-8.6714E-09
7.1000E-01	5.0500E+00	5.5593E-08	6.9031E-04	5.5660E-03	7.3495E-01	3.6803E+00	-6.6054E-09
7.2000E-01	5.0500E+00	4.2582E-08	4.7343E-04	2.9814E-03	7.3498E-01	3.6778E+00	-3.8441E-09
7.3000E-01	5.0500E+00	3.0533E-08	3.6532E-04	5.7032E-04	7.3501E-01	3.6756E+00	-1.6011E-09
7.4000E-01	5.0500E+00	9.2652E-09	1.7350E-04	-3.6131E-03	7.3505E-01	3.6734E+00	1.1210E-10
7.5000E-01	5.0500E+00	-7.6289E-11	8.5902E-05	-5.4374E-03	7.3495E-01	3.6713E+00	2.2335E-09
7.6000E-01	5.0500E+00	-6.8294E-09	5.1274E-05	-7.0886E-03	7.3482E-01	3.6692E+00	4.2517E-09
7.7000E-01	5.0500E+00	-1.6431E-08	-5.9784E-05	-8.5837E-03	7.3478E-01	3.6673E+00	5.7420E-09
7.8000E-01	5.0500E+00	-2.3530E-08	-1.2466E-04	-9.9299E-03	7.3470E-01	3.6654E+00	7.1450E-09
7.9000E-01	5.0500E+00	-2.9968E-08	-1.8371E-04	-1.1138E-02	7.3459E-01	3.6636E+00	8.9750E-09
8.0000E-01	5.0500E+00	-3.5785E-08	-2.3730E-04	-1.2215E-02	7.3448E-01	3.6618E+00	1.0283E-08
8.1000E-01	5.0500E+00	-4.1020E-08	-2.8575E-04	-1.3171E-02	7.3435E-01	3.6602E+00	1.1084E-08
8.2000E-01	5.0500E+00	-4.5710E-08	-3.2938E-04	-1.4014E-02	7.3421E-01	3.6586E+00	1.2670E-08
8.3000E-01	5.0500E+00	-4.9889E-08	-3.6850E-04	-1.4751E-02	7.3407E-01	3.6571E+00	1.3831E-08
8.4000E-01	5.0500E+00	-5.3591E-08	-4.0339E-04	-1.5388E-02	7.3392E-01	3.6556E+00	1.4500E-08
8.5000E-01	5.0500E+00	-5.6847E-08	-4.3433E-04	-1.5935E-02	7.3376E-01	3.6542E+00	1.5448E-08
8.6000E-01	5.0500E+00	-5.9689E-08	-4.6157E-04	-1.6396E-02	7.3360E-01	3.6529E+00	1.6490E-08
8.7000E-01	5.0500E+00	-6.2141E-08	-4.8537E-04	-1.6777E-02	7.3343E-01	3.6516E+00	1.7059E-08
8.8000E-01	5.0500E+00	-6.4233E-08	-5.0596E-04	-1.7085E-02	7.3326E-01	3.6504E+00	1.7423E-08
8.9000E-01	5.0500E+00	-6.5981E-08	-5.2357E-04	-1.7325E-02	7.3309E-01	3.6492E+00	1.6370E-08
9.0000E-01	5.0500E+00	-6.7438E-08	-5.3839E-04	-1.7503E-02	7.3292E-01	3.6481E+00	1.893E-08
9.1000E-01	5.0500E+00	-6.8597E-08	-5.5064E-04	-1.7632E-02	7.3276E-01	3.6471E+00	1.693E-08
9.2000E-01	5.0500E+00	-6.9490E-08	-5.6051E-04	-1.7686E-02	7.3257E-01	3.6461E+00	1.8575E-08
9.3000E-01	5.0500E+00	-7.0137E-08	-5.6816E-04	-1.7686E-02	7.3235E-01	3.6451E+00	2.0014E-08
9.4000E-01	5.0500E+00	-7.0557E-08	-5.7378E-04	-1.7608E-02	7.3235E-01	3.6442E+00	2.0051E-08
9.5000E-01	5.0500E+00	-7.0770E-08	-5.7751E-04	-1.7610E-02	7.3221E-01	3.6434E+00	2.0210E-08
9.6000E-01	5.0500E+00	-7.0792E-08	-5.7892E-04	-1.7505E-02	7.3204E-01	3.6426E+00	2.0609E-08
9.7000E-01	5.0500E+00	-7.0639E-08	-5.7894E-04	-1.7366E-02	7.3186E-01	3.6418E+00	2.0629E-08
9.8000E-01	5.0500E+00	-7.0326E-08	-5.76891E-04	-1.7196E-02	7.3169E-01	3.6411E+00	2.0369E-08
9.9000E-01	5.0500E+00	-6.9869E-08	-5.7655E-04	-1.6999E-02	7.3151E-01	3.6404E+00	2.0741E-08
1.0000E+00	5.0500E+00	-6.9869E-08	-5.7655E-04	-1.6999E-02	7.3134E-01	3.6397E+00	2.0756E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
0.0000E+00	1.0034E-09	6.2299E-07	2.5494E-02	4.3715E+00	7.1161E+02	3.4921E+01	4.2226E+03
1.0000E-02	1.0410E-09	6.2581E-07	2.5577E-02	4.4044E+00	7.1648E+02	4.8976E+01	4.4481E+03
2.0000E-02	1.1174E-09	6.2763E-07	2.5653E-02	4.3995E+00	7.1656E+02	5.9156E+01	4.9942E+03
3.0000E-02	1.2003E-09	6.1696E-07	2.5613E-02	4.3755E+00	7.1242E+02	6.2787E+01	5.5858E+03
4.0000E-02	1.2795E-09	6.1113E-07	2.5507E-02	4.3515E+00	7.0916E+02	6.5759E+01	6.1187E+03
5.0000E-02	1.3456E-09	6.0884E-07	2.5390E-02	4.3288E+00	7.0569E+02	6.7021E+01	6.5757E+03
6.0000E-02	1.4043E-09	6.0897E-07	2.5289E-02	4.3198E+00	7.0331E+02	6.8096E+01	6.9627E+03
7.0000E-02	1.4542E-09	6.1117E-07	2.5170E-02	4.3118E+00	7.0148E+02	6.9320E+01	7.2877E+03
8.0000E-02	1.4964E-09	6.1288E-07	2.5150E-02	4.3086E+00	7.0150E+02	6.9998E+01	7.5592E+03
9.0000E-02	1.5318E-09	6.1480E-07	2.5150E-02	4.3091E+00	7.0210E+02	7.1197E+01	7.7855E+03
1.0000E-01	1.5615E-09	6.1673E-07	2.5151E-02	4.3127E+00	7.0285E+02	7.1412E+01	8.1278E+03
1.0000E-01	1.5862E-09	6.1871E-07	2.5202E-02	4.3185E+00	7.0418E+02	7.1792E+01	8.2549E+03
1.0000E-01	1.6069E-09	6.2079E-07	2.5246E-02	4.3263E+00	7.0579E+02	7.2136E+01	8.3581E+03
1.0000E-01	1.6237E-09	6.2282E-07	2.5299E-02	4.3340E+00	7.0714E+02	7.2496E+01	8.4418E+03
1.0000E-01	1.6491E-09	6.2474E-07	2.5359E-02	4.3400E+00	7.0909E+02	7.2220E+01	8.5093E+03
1.0000E-01	1.6599E-09	6.2671E-07	2.5423E-02	4.3488E+00	7.1144E+02	7.2400E+01	8.5875E+03
1.0000E-01	1.6720E-09	6.3045E-07	2.5490E-02	4.3610E+00	7.1272E+02	7.2103E+01	8.6040E+03
1.0000E-01	1.6769E-09	6.3222E-07	2.5540E-02	4.3693E+00	7.1466E+02	7.2271E+01	8.6368E+03
2.0000E-01	1.6805E-09	6.3404E-07	2.5631E-02	4.4052E+00	7.1701E+02	7.2420E+01	8.6614E+03
2.0000E-01	1.6835E-09	6.3564E-07	2.5725E-02	4.4175E+00	7.1915E+02	7.2550E+01	8.6918E+03
2.0000E-01	1.6857E-09	6.3716E-07	2.5842E-02	4.4295E+00	7.2073E+02	7.2247E+01	8.7003E+03
2.0000E-01	1.6873E-09	6.3872E-07	2.5970E-02	4.4525E+00	7.2278E+02	7.2247E+01	8.7003E+03
2.0000E-01	1.6885E-09	6.4019E-07	2.5976E-02	4.4535E+00	7.2480E+02	7.2338E+01	8.7049E+03
2.0000E-01	1.6892E-09	6.4146E-07	2.6040E-02	4.4740E+00	7.2626E+02	7.1935E+01	8.7066E+03
2.0000E-01	1.6897E-09	6.4275E-07	2.6102E-02	4.4842E+00	7.2813E+02	7.2014E+01	8.7065E+03
2.0000E-01	1.6898E-09	6.4406E-07	2.6181E-02	4.4941E+00	7.3165E+02	7.2129E+01	8.7041E+03
2.0000E-01	1.6898E-09	6.4510E-07	2.6218E-02	4.5033E+00	7.3288E+02	7.1769E+01	8.6955E+03
2.0000E-01	1.6895E-09	6.4615E-07	2.6272E-02	4.5120E+00	7.3444E+02	7.1815E+01	8.6898E+03
3.0000E-01	1.6892E-09	6.4720E-07	2.6324E-02	4.5205E+00	7.3591E+02	7.1851E+01	8.6832E+03
3.0000E-01	1.6887E-09	6.4811E-07	2.6372E-02	4.5283E+00	7.3826E+02	7.1536E+01	8.6764E+03
3.0000E-01	1.6881E-09	6.4893E-07	2.6418E-02	4.5356E+00	7.3949E+02	7.1572E+01	8.6694E+03
3.0000E-01	1.6875E-09	6.5052E-07	2.6502E-02	4.5426E+00	7.3949E+02	7.1596E+01	8.6619E+03
3.0000E-01	1.6868E-09	6.5174E-07	2.6540E-02	4.5515E+00	7.4143E+02	7.1358E+01	8.6543E+03
3.0000E-01	1.6853E-09	6.5176E-07	2.6575E-02	4.5607E+00	7.4243E+02	7.1374E+01	8.6471E+03
3.0000E-01	1.6844E-09	6.5237E-07	2.6608E-02	4.5660E+00	7.4334E+02	7.1374E+01	8.6398E+03
3.0000E-01	1.6835E-09	6.5285E-07	2.6638E-02	4.5707E+00	7.4397E+02	7.1381E+01	8.6324E+03
3.0000E-01	1.6831E-09	6.5329E-07	2.6666E-02	4.5751E+00	7.4475E+02	7.1188E+01	8.6295E+03
4.0000E-01	1.6823E-09	6.5372E-07	2.6691E-02	4.5791E+00	7.4546E+02	7.1190E+01	8.6120E+03
4.0000E-01	1.6809E-09	6.5409E-07	2.6715E-02	4.5828E+00	7.4595E+02	7.1032E+01	8.6056E+03
4.0000E-01	1.6803E-09	6.5439E-07	2.6736E-02	4.5860E+00	7.4654E+02	7.1038E+01	8.5997E+03
4.0000E-01	1.6802E-09	6.5468E-07	2.6755E-02	4.5890E+00	7.4706E+02	7.1037E+01	8.5939E+03
4.0000E-01	1.6795E-09	6.5494E-07	2.6773E-02	4.5917E+00	7.4742E+02	7.0919E+01	8.5883E+03
4.0000E-01	1.6788E-09	6.5512E-07	2.6788E-02	4.5940E+00	7.4784E+02	7.0921E+01	8.5833E+03
4.0000E-01	1.6782E-09	6.5528E-07	2.6802E-02	4.5960E+00	7.4820E+02	7.0918E+01	8.5784E+03

4. 7000E-01 1. 6776E-09 6. 5544E-07 2. 6814E-02 4. 5978E+00 7. 4852E+02 7. 0909E+01 8. 5738E+03  
4. 6000E-01 1. 6770E-09 6. 5554E-07 2. 6824E-02 4. 5995E+00 7. 4872E+02 7. 0835E+01 8. 5685E+03  
4. 9000E-01 1. 6765E-09 6. 5561E-07 2. 6833E-02 4. 6008E+00 7. 4895E+02 7. 0835E+01 8. 5685E+03  
5. 1000E-01 1. 6759E-09 6. 5568E-07 2. 6840E-02 4. 6019E+00 7. 4918E+02 7. 0825E+01 8. 5670E+03  
5. 2000E-01 1. 6754E-09 6. 5588E-07 2. 6851E-02 4. 6032E+00 7. 4936E+02 7. 0795E+01 8. 5656E+03  
5. 3000E-01 1. 6745E-09 6. 5586E-07 2. 6855E-02 4. 6039E+00 7. 4944E+02 7. 0795E+01 8. 5656E+03  
5. 4000E-01 1. 6741E-09 6. 5582E-07 2. 6857E-02 4. 6037E+00 7. 4948E+02 7. 0795E+01 8. 5656E+03  
5. 5000E-01 1. 6737E-09 6. 5585E-07 2. 6859E-02 4. 6038E+00 7. 4949E+02 7. 0731E+01 8. 5479E+03  
5. 6000E-01 1. 6734E-09 6. 5548E-07 2. 6859E-02 4. 6035E+00 7. 4948E+02 7. 0721E+01 8. 5459E+03  
5. 7000E-01 1. 6731E-09 6. 5538E-07 2. 6859E-02 4. 6035E+00 7. 4944E+02 7. 0709E+01 8. 5459E+03  
5. 8000E-01 1. 6728E-09 6. 5527E-07 2. 6858E-02 4. 6031E+00 7. 4940E+02 7. 0713E+01 8. 5441E+03  
5. 9000E-01 1. 6725E-09 6. 5515E-07 2. 6855E-02 4. 6028E+00 7. 4932E+02 7. 0703E+01 8. 5411E+03  
6. 0000E-01 1. 6722E-09 6. 5504E-07 2. 6853E-02 4. 6020E+00 7. 4921E+02 7. 0691E+01 8. 5400E+03  
6. 1000E-01 1. 6720E-09 6. 5487E-07 2. 6849E-02 4. 6019E+00 7. 4912E+02 7. 0711E+01 8. 5390E+03  
6. 2000E-01 1. 6718E-09 6. 5472E-07 2. 6845E-02 4. 6005E+00 7. 4898E+02 7. 0701E+01 8. 5382E+03  
6. 3000E-01 1. 6716E-09 6. 5456E-07 2. 6840E-02 4. 5998E+00 7. 4883E+02 7. 0690E+01 8. 5377E+03  
6. 4000E-01 1. 6714E-09 6. 5438E-07 2. 6835E-02 4. 5986E+00 7. 4866E+02 7. 0677E+01 8. 5370E+03  
6. 5000E-01 1. 6713E-09 6. 5420E-07 2. 6830E-02 4. 5976E+00 7. 4852E+02 7. 0711E+01 8. 5370E+03  
6. 6000E-01 1. 6712E-09 6. 5403E-07 2. 6824E-02 4. 5965E+00 7. 4833E+02 7. 0701E+01 8. 5369E+03  
6. 7000E-01 1. 6710E-09 6. 5383E-07 2. 6817E-02 4. 5954E+00 7. 4813E+02 7. 0690E+01 8. 5369E+03  
6. 8000E-01 1. 6710E-09 6. 5363E-07 2. 6811E-02 4. 5945E+00 7. 4797E+02 7. 0732E+01 8. 5371E+03  
6. 9000E-01 1. 6709E-09 6. 5344E-07 2. 6804E-02 4. 5929E+00 7. 4775E+02 7. 0722E+01 8. 5373E+03  
7. 0000E-01 1. 6708E-09 6. 5323E-07 2. 6796E-02 4. 5915E+00 7. 4752E+02 7. 0712E+01 8. 5371E+03  
7. 1000E-01 1. 6708E-09 6. 5302E-07 2. 6789E-02 4. 5903E+00 7. 4735E+02 7. 0761E+01 8. 5383E+03  
7. 2000E-01 1. 6707E-09 6. 5283E-07 2. 6773E-02 4. 5888E+00 7. 4711E+02 7. 0751E+01 8. 5389E+03  
7. 3000E-01 1. 6707E-09 6. 5262E-07 2. 6765E-02 4. 5875E+00 7. 4687E+02 7. 0742E+01 8. 5396E+03  
7. 4000E-01 1. 6707E-09 6. 5240E-07 2. 6757E-02 4. 5861E+00 7. 4667E+02 7. 0733E+01 8. 5404E+03  
7. 5000E-01 1. 6707E-09 6. 5220E-07 2. 6749E-02 4. 5847E+00 7. 4644E+02 7. 0727E+01 8. 5412E+03  
7. 6000E-01 1. 6707E-09 6. 5200E-07 2. 6740E-02 4. 5833E+00 7. 4619E+02 7. 0717E+01 8. 5422E+03  
7. 7000E-01 1. 6708E-09 6. 5179E-07 2. 6732E-02 4. 5819E+00 7. 4594E+02 7. 0776E+01 8. 5432E+03  
7. 8000E-01 1. 6708E-09 6. 5157E-07 2. 6724E-02 4. 5804E+00 7. 4575E+02 7. 0824E+01 8. 5443E+03  
7. 9000E-01 1. 6709E-09 6. 5138E-07 2. 6715E-02 4. 5790E+00 7. 4550E+02 7. 0808E+01 8. 5454E+03  
8. 0000E-01 1. 6709E-09 6. 5117E-07 2. 6707E-02 4. 5776E+00 7. 4525E+02 7. 0808E+01 8. 5454E+03  
8. 1000E-01 1. 6710E-09 6. 5096E-07 2. 6700E-02 4. 5761E+00 7. 4499E+02 7. 0801E+01 8. 5478E+03  
8. 2000E-01 1. 6711E-09 6. 5077E-07 2. 6692E-02 4. 5747E+00 7. 4481E+02 7. 0816E+01 8. 5490E+03  
8. 3000E-01 1. 6712E-09 6. 5058E-07 2. 6682E-02 4. 5733E+00 7. 4456E+02 7. 0850E+01 8. 5503E+03  
8. 4000E-01 1. 6712E-09 6. 5037E-07 2. 6682E-02 4. 5719E+00 7. 4431E+02 7. 0843E+01 8. 5517E+03  
8. 5000E-01 1. 6713E-09 6. 5019E-07 2. 6674E-02 4. 5705E+00 7. 4413E+02 7. 0898E+01 8. 5530E+03  
8. 6000E-01 1. 6714E-09 6. 5000E-07 2. 6666E-02 4. 5692E+00 7. 4389E+02 7. 0892E+01 8. 5543E+03  
8. 7000E-01 1. 6715E-09 6. 4981E-07 2. 6658E-02 4. 5678E+00 7. 4365E+02 7. 0886E+01 8. 5557E+03  
8. 8000E-01 1. 6716E-09 6. 4962E-07 2. 6650E-02 4. 5665E+00 7. 4348E+02 7. 0940E+01 8. 5572E+03  
8. 9000E-01 1. 6717E-09 6. 4945E-07 2. 6642E-02 4. 5652E+00 7. 4324E+02 7. 0934E+01 8. 5585E+03  
9. 0000E-01 1. 6718E-09 6. 4928E-07 2. 6635E-02 4. 5638E+00 7. 4302E+02 7. 0929E+01 8. 5599E+03  
9. 1000E-01 1. 6719E-09 6. 4910E-07 2. 6627E-02 4. 5625E+00 7. 4279E+02 7. 0925E+01 8. 5614E+03  
9. 2000E-01 1. 6720E-09 6. 4894E-07 2. 6620E-02 4. 5614E+00 7. 4263E+02 7. 0975E+01 8. 5628E+03  
9. 3000E-01 1. 6722E-09 6. 4877E-07 2. 6613E-02 4. 5602E+00 7. 4241E+02 7. 0971E+01 8. 5642E+03  
9. 4000E-01 1. 6723E-09 6. 4861E-07 2. 6605E-02 4. 5589E+00 7. 4220E+02 7. 0967E+01 8. 5656E+03  
9. 5000E-01 1. 6724E-09 6. 4845E-07 2. 6598E-02 4. 5578E+00 7. 4205E+02 7. 1015E+01 8. 5670E+03  
9. 6000E-01 1. 6725E-09 6. 4830E-07 2. 6592E-02 4. 5566E+00 7. 4184E+02 7. 1011E+01 8. 5684E+03  
9. 7000E-01 1. 6726E-09 6. 4815E-07 2. 6585E-02 4. 5555E+00 7. 4165E+02 7. 1007E+01 8. 5698E+03  
9. 8000E-01 1. 6728E-09 6. 4799E-07 2. 6578E-02 4. 5544E+00 7. 4150E+02 7. 1052E+01 8. 5712E+03  
9. 9000E-01 1. 6729E-09 6. 4786E-07 2. 6572E-02 4. 5533E+00 7. 4131E+02 7. 1049E+01 8. 5726E+03  
1. 0000E+00 1. 6730E-09 6. 4773E-07 2. 6566E-02 4. 5523E+00 7. 4113E+02 7. 1046E+01 8. 5739E+03

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
0.000E+00	-4.1795E-01	4.0535E+01	1.0115E-05	1.0000E+01	3.5080E-07	7.6289E-06	1.3147E-06
1.000E-02	-6.0760E+01	3.9913E+01	1.0115E-05	1.0000E+01	1.4590E-07	7.8314E-06	1.1909E-06
2.000E-02	-5.2110E+01	3.9349E+01	1.0096E-05	1.0000E+01	2.5994E-07	7.6330E-06	1.2463E-06
3.000E-02	-4.3277E+01	3.8972E+01	1.0073E-05	1.0000E+01	6.0290E-07	7.6372E-06	1.4573E-06
4.000E-02	-3.5296E+01	3.8480E+01	1.0044E-05	1.0000E+01	8.8684E-07	7.6446E-06	1.6545E-06
5.000E-02	-2.8401E+01	3.8163E+01	1.0011E-05	1.0000E+01	1.1674E-06	7.6550E-06	1.8534E-06
6.000E-02	-2.2502E+01	3.7909E+01	9.9750E-06	1.0000E+01	1.3748E-06	7.6678E-06	2.0057E-06
7.000E-02	-1.7477E+01	3.7710E+01	9.9377E-06	1.0000E+01	1.5029E-06	7.6782E-06	2.1040E-06
8.000E-02	-1.3206E+01	3.7557E+01	9.8988E-06	1.0000E+01	1.5987E-06	7.6978E-06	2.1738E-06
9.000E-02	-9.5760E+00	3.7444E+01	9.8623E-06	1.0000E+01	1.6581E-06	7.7141E-06	2.2132E-06
1.000E-01	-6.5011E+00	3.7364E+01	9.8258E-06	1.0000E+01	1.6963E-06	7.7272E-06	2.2044E-06
1.000E-01	-3.8977E+00	3.7312E+01	9.7907E-06	1.0000E+01	1.6503E-06	7.7472E-06	2.1719E-06
2.000E-01	-1.7027E+00	3.7264E+01	9.7574E-06	1.0000E+01	1.6085E-06	7.7635E-06	2.1257E-06
3.000E-01	1.3678E-01	3.7277E+01	9.7262E-06	1.0000E+01	1.5468E-06	7.7793E-06	2.0855E-06
4.000E-01	1.6771E+00	3.7266E+01	9.6972E-06	1.0000E+01	1.4944E-06	7.7945E-06	2.0216E-06
5.000E-01	2.9652E+00	3.7310E+01	9.6706E-06	1.0000E+01	1.4079E-06	7.8226E-06	1.9549E-06
6.000E-01	4.0271E+00	3.7345E+01	9.6464E-06	1.0000E+01	1.3126E-06	7.8000E-06	1.9007E-06
7.000E-01	4.8955E+00	3.7389E+01	9.6247E-06	1.0000E+01	1.2391E-06	7.8353E-06	1.8300E-06
8.000E-01	5.6170E+00	3.7442E+01	9.6054E-06	1.0000E+01	1.1346E-06	7.8471E-06	1.7588E-06
9.000E-01	6.1953E+00	3.7501E+01	9.5885E-06	1.0000E+01	1.0279E-06	7.8579E-06	1.6882E-06
2.000E-01	6.6503E+00	3.7566E+01	9.5735E-06	1.0000E+01	9.2048E-07	7.8677E-06	1.6340E-06
2.000E-01	7.0142E+00	3.7634E+01	9.5614E-06	1.0000E+01	8.4099E-07	7.8765E-06	1.5661E-06
2.000E-01	7.2936E+00	3.7706E+01	9.5512E-06	1.0000E+01	7.9532E-07	7.8844E-06	1.5003E-06
2.000E-01	7.4945E+00	3.7780E+01	9.5428E-06	1.0000E+01	6.3188E-07	7.8913E-06	1.4508E-06
2.000E-01	7.6342E+00	3.7855E+01	9.5368E-06	1.0000E+01	5.5627E-07	7.8972E-06	1.3896E-06
2.000E-01	7.7289E+00	3.7932E+01	9.5321E-06	1.0000E+01	4.5837E-07	7.9022E-06	1.3312E-06
2.000E-01	7.7732E+00	3.8010E+01	9.5293E-06	1.0000E+01	3.8420E-07	7.9063E-06	1.2755E-06
2.000E-01	7.7741E+00	3.8087E+01	9.5281E-06	1.0000E+01	2.7404E-07	7.9096E-06	1.2346E-06
2.000E-01	7.7536E+00	3.8165E+01	9.5284E-06	1.0000E+01	2.0910E-07	7.9120E-06	1.1844E-06
2.000E-01	7.7012E+00	3.8242E+01	9.5309E-06	1.0000E+01	1.4664E-07	7.9137E-06	1.1371E-06
3.000E-01	7.5248E+00	3.8319E+01	9.5329E-06	1.0000E+01	4.8628E-08	7.9146E-06	1.1025E-06
3.000E-01	7.4137E+00	3.8395E+01	9.5369E-06	1.0000E+01	7.2175E-09	7.9148E-06	1.0605E-06
3.000E-01	7.2845E+00	3.8543E+01	9.5405E-06	1.0000E+01	7.7178E-08	7.9143E-06	1.0217E-06
3.000E-01	7.1426E+00	3.8615E+01	9.5449E-06	1.0000E+01	1.4925E-07	7.9133E-06	9.9277E-07
3.000E-01	6.9957E+00	3.8695E+01	9.5549E-06	1.0000E+01	1.8680E-07	7.9116E-06	9.5645E-07
3.000E-01	6.8395E+00	3.8755E+01	9.5676E-06	1.0000E+01	3.0025E-07	7.9094E-06	9.2675E-07
3.000E-01	6.6733E+00	3.8823E+01	9.5800E-06	1.0000E+01	3.4947E-07	7.9034E-06	8.9757E-07
3.000E-01	6.5068E+00	3.8895E+01	9.5896E-06	1.0000E+01	3.8402E-07	7.8997E-06	8.7673E-07
3.000E-01	6.3352E+00	3.8953E+01	9.5996E-06	1.0000E+01	4.2619E-07	7.8957E-06	8.5186E-07
4.000E-01	6.1581E+00	3.9015E+01	9.6101E-06	1.0000E+01	4.6449E-07	7.8912E-06	8.2925E-07
4.000E-01	5.9814E+00	3.9076E+01	9.6209E-06	1.0000E+01	4.9116E-07	7.8865E-06	8.1328E-07
4.000E-01	5.8047E+00	3.9135E+01	9.6320E-06	1.0000E+01	5.2314E-07	7.8814E-06	7.9448E-07
4.000E-01	5.6258E+00	3.9192E+01	9.6433E-06	1.0000E+01	5.5175E-07	7.8760E-06	7.7767E-07
4.000E-01	5.4462E+00	3.9247E+01	9.6548E-06	1.0000E+01	5.7139E-07	7.8704E-06	7.6596E-07
4.000E-01	5.2702E+00	3.9301E+01	9.6665E-06	1.0000E+01	5.9447E-07	7.8645E-06	7.5247E-07
4.000E-01	5.0942E+00	3.9353E+01	9.6783E-06	1.0000E+01	6.1452E-07	7.8585E-06	7.4069E-07

4.7000E-01 4.1919E+00 3.9403E+01 9.6902E-06 1.0000E+01 -6.3184E-07 7.8522E-06 7.3054E-07  
4.8000E-01 4.7472E+00 3.9451E+01 9.7021E-06 1.0000E+01 -6.4330E-07 7.8459E-06 7.2372E-07  
4.9000E-01 4.8778E+00 3.9498E+01 9.7140E-06 1.0000E+01 -6.5608E-07 7.8394E-06 7.1624E-07  
5.0000E-01 4.4101E+00 3.9543E+01 9.7258E-06 1.0000E+01 -6.6650E-07 7.8328E-06 7.1013E-07  
5.1000E-01 4.2457E+00 3.9586E+01 9.7376E-06 1.0000E+01 -6.7303E-07 7.8261E-06 7.0624E-07  
5.2000E-01 4.0849E+00 3.9628E+01 9.7493E-06 1.0000E+01 -6.7984E-07 7.8193E-06 7.0236E-07  
5.3000E-01 3.9268E+00 3.9668E+01 9.7609E-06 1.0000E+01 -6.8472E-07 7.8125E-06 6.9962E-07  
5.4000E-01 3.7723E+00 3.9706E+01 9.7724E-06 1.0000E+01 -6.8707E-07 7.8056E-06 6.9794E-07  
5.5000E-01 3.6215E+00 3.9743E+01 9.7837E-06 1.0000E+01 -6.8803E-07 7.7987E-06 6.9728E-07  
5.6000E-01 3.4742E+00 3.9779E+01 9.7949E-06 1.0000E+01 -6.8803E-07 7.7918E-06 6.9728E-07  
5.7000E-01 3.3306E+00 3.9815E+01 9.8059E-06 1.0000E+01 -6.8641E-07 7.7850E-06 6.9816E-07  
5.8000E-01 3.1911E+00 3.9845E+01 9.8167E-06 1.0000E+01 -6.8437E-07 7.7781E-06 6.9931E-07  
5.9000E-01 3.0515E+00 3.9876E+01 9.8273E-06 1.0000E+01 -6.8041E-07 7.7713E-06 7.0156E-07  
6.0000E-01 2.9231E+00 3.9908E+01 9.8377E-06 1.0000E+01 -6.7526E-07 7.7645E-06 7.0488E-07  
6.1000E-01 2.7953E+00 3.9935E+01 9.8478E-06 1.0000E+01 -6.7072E-07 7.7578E-06 7.0708E-07  
6.2000E-01 2.6706E+00 3.9962E+01 9.8578E-06 1.0000E+01 -6.6374E-07 7.7511E-06 7.1107E-07  
6.3000E-01 2.5501E+00 3.9988E+01 9.8675E-06 1.0000E+01 -6.5584E-07 7.7445E-06 7.1538E-07  
6.4000E-01 2.4341E+00 4.0013E+01 9.8770E-06 1.0000E+01 -6.4710E-07 7.7380E-06 7.2057E-07  
6.5000E-01 2.3209E+00 4.0037E+01 9.8862E-06 1.0000E+01 -6.4009E-07 7.7316E-06 7.2462E-07  
6.6000E-01 2.2116E+00 4.0060E+01 9.8952E-06 1.0000E+01 -6.3011E-07 7.7252E-06 7.3032E-07  
6.7000E-01 2.1067E+00 4.0081E+01 9.9039E-06 1.0000E+01 -6.1952E-07 7.7190E-06 7.3698E-07  
6.8000E-01 2.0052E+00 4.0102E+01 9.9124E-06 1.0000E+01 -6.1122E-07 7.7128E-06 7.4117E-07  
6.9000E-01 1.9124E+00 4.0121E+01 9.9207E-06 1.0000E+01 -5.9975E-07 7.7068E-06 7.4773E-07  
7.0000E-01 1.8222E+00 4.0158E+01 9.9286E-06 1.0000E+01 -5.8785E-07 7.7008E-06 7.5453E-07  
7.1000E-01 1.7339E+00 4.0174E+01 9.9364E-06 1.0000E+01 -5.7865E-07 7.6950E-06 7.5983E-07  
7.2000E-01 1.6497E+00 4.0190E+01 9.9439E-06 1.0000E+01 -5.6818E-07 7.6893E-06 7.6697E-07  
7.3000E-01 1.5497E+00 4.0205E+01 9.9512E-06 1.0000E+01 -5.5342E-07 7.6837E-06 7.7425E-07  
7.4000E-01 1.4894E+00 4.0205E+01 9.9582E-06 1.0000E+01 -5.4047E-07 7.6782E-06 7.8166E-07  
7.5000E-01 1.3914E+00 4.0220E+01 9.9650E-06 1.0000E+01 -5.3060E-07 7.6728E-06 7.8735E-07  
7.6000E-01 1.3165E+00 4.0233E+01 9.9715E-06 1.0000E+01 -5.1739E-07 7.6676E-06 7.9490E-07  
7.7000E-01 1.2454E+00 4.0246E+01 9.9778E-06 1.0000E+01 -5.0408E-07 7.6625E-06 8.0251E-07  
7.8000E-01 1.1772E+00 4.0258E+01 9.9839E-06 1.0000E+01 -4.9400E-07 7.6575E-06 8.0831E-07  
7.9000E-01 1.1109E+00 4.0270E+01 9.9897E-06 1.0000E+01 -4.8084E-07 7.6526E-06 8.1595E-07  
8.0000E-01 1.0481E+00 4.0280E+01 9.9954E-06 1.0000E+01 -4.8729E-07 7.6479E-06 8.2388E-07  
8.1000E-01 9.8882E-01 4.0291E+01 1.0001E-05 1.0000E+01 -4.5394E-07 7.6433E-06 8.3120E-07  
8.2000E-01 9.3059E-01 4.0300E+01 1.0006E-05 1.0000E+01 -4.4393E-07 7.6388E-06 8.3696E-07  
8.3000E-01 8.7550E-01 4.0309E+01 1.0011E-05 1.0000E+01 -4.3073E-07 7.6344E-06 8.4449E-07  
8.4000E-01 8.2360E-01 4.0318E+01 1.0016E-05 1.0000E+01 -4.1784E-07 7.6302E-06 8.5197E-07  
8.5000E-01 7.7346E-01 4.0328E+01 1.0020E-05 1.0000E+01 -4.0784E-07 7.6260E-06 8.5761E-07  
8.6000E-01 7.2531E-01 4.0333E+01 1.0025E-05 1.0000E+01 -3.9500E-07 7.6220E-06 8.6493E-07  
8.7000E-01 6.8010E-01 4.0340E+01 1.0029E-05 1.0000E+01 -3.8231E-07 7.6181E-06 8.7217E-07  
8.8000E-01 6.3730E-01 4.0347E+01 1.0033E-05 1.0000E+01 -3.7289E-07 7.6144E-06 8.7762E-07  
8.9000E-01 5.9541E-01 4.0353E+01 1.0037E-05 1.0000E+01 -3.6048E-07 7.6107E-06 8.8467E-07  
9.0000E-01 5.5821E-01 4.0359E+01 1.0041E-05 1.0000E+01 -3.4832E-07 7.6072E-06 8.9160E-07  
9.1000E-01 5.1960E-01 4.0364E+01 1.0044E-05 1.0000E+01 -3.3637E-07 7.6037E-06 8.9842E-07  
9.2000E-01 4.8373E-01 4.0369E+01 1.0048E-05 1.0000E+01 -3.2749E-07 7.6004E-06 9.0352E-07  
9.3000E-01 4.4950E-01 4.0374E+01 1.0051E-05 1.0000E+01 -3.1595E-07 7.5972E-06 9.1010E-07  
9.4000E-01 4.1842E-01 4.0378E+01 1.0054E-05 1.0000E+01 -3.0464E-07 7.5941E-06 9.1655E-07  
9.5000E-01 3.8931E-01 4.0382E+01 1.0057E-05 1.0000E+01 -2.9624E-07 7.5911E-06 9.2137E-07  
9.6000E-01 3.5925E-01 4.0386E+01 1.0060E-05 1.0000E+01 -2.8538E-07 7.5882E-06 9.2756E-07  
9.7000E-01 3.3232E-01 4.0389E+01 1.0062E-05 1.0000E+01 -2.7475E-07 7.5854E-06 9.3361E-07  
9.8000E-01 3.0728E-01 4.0393E+01 1.0065E-05 1.0000E+01 -2.6688E-07 7.5827E-06 9.3815E-07  
9.9000E-01 2.8246E-01 4.0396E+01 1.0067E-05 1.0000E+01 -2.5673E-07 7.5801E-06 9.4392E-07  
1.0000E+00 2.5953E-01 4.0398E+01 1.0070E-05 1.0000E+01 -2.4683E-07 7.5776E-06 9.4956E-07



ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

1. 0000E-05	7. 4254E+05	9. 0500E+01	6. 0500E+01	1. 0000E+06	0. 0000E+00	5. 0000E+00	3. 1000E+02
1. 6330E-05	5. 9000E-04	0. 0000E+00	1. 6940E+03	1. 0490E+06	2. 5800E+01	7. 4400E+01	1. 7140E+00
1. 8280E+02	1. 5898E-10	3. 3566E+03	2. 7800E-01	1. 7760E-02	2. 5500E-10	8. 3283E-09	1. 8500E-06
7. 4000E+00	2. 4000E+00	3. 8500E-06	2. 0000E+01	5. 5611E-01	1. 7000E-08	8. 2600E+01	5. 6000E+01
4. 3290E-01	4. 7700E-01	2. 3400E-01	6. 4300E-02	3. 2250E-07	5. 2080E-08	1. 2215E+01	7. 2259E+00
0. 0000E+00	0. 0000E+00						
0. 0000E+00	7. 2743E+00	1. 5265E+02	2. 5963E+02	6. 7669E+02	7. 1200E+03	1. 2457E+00	7. 0081E+02
1. 0000E-01	2. 5305E+00	1. 4908E+02	2. 5974E+02	6. 8661E+02	7. 1200E+03	1. 2755E+00	6. 9741E+02
2. 0000E-02	2. 5413E+00	1. 4223E+02	2. 5983E+02	6. 5740E+02	7. 1200E+03	1. 3544E+00	6. 8280E+02
3. 0000E-02	2. 6783E+00	1. 4954E+02	2. 5991E+02	6. 4964E+02	7. 1200E+03	1. 4499E+00	6. 8729E+02
4. 0000E-02	2. 9900E+00	1. 6306E+02	2. 6004E+02	6. 4342E+02	7. 1200E+03	1. 5451E+00	6. 8905E+02
5. 0000E-02	3. 3636E+00	1. 8536E+02	2. 6027E+02	6. 3867E+02	7. 1200E+03	1. 6374E+00	6. 7951E+02
6. 0000E-02	3. 7193E+00	2. 0713E+02	2. 6059E+02	6. 3521E+02	7. 1200E+03	1. 7248E+00	6. 7716E+02
7. 0000E-02	4. 0417E+00	2. 2117E+02	2. 6101E+02	6. 3288E+02	7. 1200E+03	1. 8066E+00	6. 7594E+02
8. 0000E-02	4. 3915E+00	2. 3583E+02	2. 6149E+02	6. 3149E+02	7. 1200E+03	1. 8826E+00	6. 7539E+02
9. 0000E-01	4. 4684E+00	2. 4574E+02	2. 6203E+02	6. 3087E+02	7. 1200E+03	1. 9527E+00	6. 7566E+02
1. 0000E-01	4. 5216E+00	2. 5308E+02	2. 6260E+02	6. 3090E+02	7. 1200E+03	2. 0169E+00	6. 7629E+02
1. 0000E-01	4. 5091E+00	2. 5274E+02	2. 6319E+02	6. 3144E+02	7. 1200E+03	2. 0756E+00	6. 7795E+02
1. 3000E-01	4. 4608E+00	2. 4997E+02	2. 6378E+02	6. 3239E+02	7. 1200E+03	2. 1289E+00	6. 8081E+02
1. 5000E-01	4. 3844E+00	2. 4665E+02	2. 6436E+02	6. 3365E+02	7. 1200E+03	2. 2045E+00	6. 8237E+02
1. 6000E-01	4. 2865E+00	2. 4097E+02	2. 6493E+02	6. 3517E+02	7. 1200E+03	2. 2594E+00	6. 8446E+02
1. 7000E-01	4. 1739E+00	2. 3474E+02	2. 6598E+02	6. 3870E+02	7. 1200E+03	2. 3242E+00	6. 8663E+02
1. 8000E-01	4. 0513E+00	2. 2871E+02	2. 6646E+02	6. 4062E+02	7. 1200E+03	2. 3515E+00	6. 8863E+02
1. 9000E-01	3. 9205E+00	2. 2092E+02	2. 6691E+02	6. 4259E+02	7. 1200E+03	2. 3527E+00	6. 8086E+02
2. 0000E-01	3. 7866E+00	2. 1285E+02	2. 6732E+02	6. 4459E+02	7. 1200E+03	2. 3771E+00	6. 9312E+02
2. 0000E-01	3. 5164E+00	2. 0466E+02	2. 6769E+02	6. 4660E+02	7. 1200E+03	2. 3995E+00	6. 9534E+02
2. 3000E-01	3. 3828E+00	1. 9853E+02	2. 6803E+02	6. 4859E+02	7. 1200E+03	2. 4174E+00	6. 9728E+02
2. 3000E-01	3. 2523E+00	1. 9044E+02	2. 6832E+02	6. 5054E+02	7. 1200E+03	2. 4340E+00	6. 9941E+02
2. 4000E-01	3. 1258E+00	1. 8253E+02	2. 6859E+02	6. 5246E+02	7. 1200E+03	2. 4484E+00	7. 0147E+02
2. 6000E-01	3. 0026E+00	1. 7674E+02	2. 6881E+02	6. 5432E+02	7. 1200E+03	2. 4609E+00	7. 0324E+02
2. 6000E-01	2. 8945E+00	1. 6928E+02	2. 6901E+02	6. 5612E+02	7. 1200E+03	2. 4717E+00	7. 0516E+02
2. 7000E-01	2. 7118E+00	1. 6208E+02	2. 6917E+02	6. 5785E+02	7. 1200E+03	2. 4810E+00	7. 0699E+02
2. 8000E-01	2. 6332E+00	1. 5522E+02	2. 6930E+02	6. 5952E+02	7. 1200E+03	2. 4890E+00	7. 0873E+02
2. 9000E-01	2. 5603E+00	1. 5030E+02	2. 6940E+02	6. 6111E+02	7. 1200E+03	2. 4958E+00	7. 1021E+02
3. 0000E-01	2. 4831E+00	1. 4403E+02	2. 6947E+02	6. 6262E+02	7. 1200E+03	2. 5015E+00	7. 1178E+02
3. 0000E-01	2. 3709E+00	1. 3811E+02	2. 6951E+02	6. 6406E+02	7. 1200E+03	2. 5062E+00	7. 1327E+02
3. 0000E-01	2. 2837E+00	1. 3388E+02	2. 6955E+02	6. 6541E+02	7. 1200E+03	2. 5101E+00	7. 1452E+02
3. 0000E-01	2. 2021E+00	1. 2856E+02	2. 6952E+02	6. 6689E+02	7. 1200E+03	2. 5133E+00	7. 1584E+02
3. 0000E-01	2. 1258E+00	1. 2300E+02	2. 6950E+02	6. 6789E+02	7. 1200E+03	2. 5159E+00	7. 1707E+02
3. 5000E-01	2. 0539E+00	1. 1570E+02	2. 6945E+02	6. 6902E+02	7. 1200E+03	2. 5179E+00	7. 1810E+02
3. 6000E-01	1. 9872E+00	1. 1183E+02	2. 6938E+02	6. 7007E+02	7. 1200E+03	2. 5195E+00	7. 1917E+02
3. 7000E-01	1. 9255E+00	1. 0787E+02	2. 6929E+02	6. 7105E+02	7. 1200E+03	2. 5206E+00	7. 2016E+02
3. 8000E-01	1. 8150E+00	1. 0524E+02	2. 6918E+02	6. 7186E+02	7. 1200E+03	2. 5213E+00	7. 2108E+02
3. 9000E-01	1. 6655E+00	1. 0200E+02	2. 6893E+02	6. 7280E+02	7. 1200E+03	2. 5218E+00	7. 2183E+02
4. 0000E-01	1. 5270E+00	9. 9034E+01	2. 6878E+02	6. 7357E+02	7. 1200E+03	2. 5220E+00	7. 2261E+02
4. 0000E-01	1. 4451E+00	9. 6989E+01	2. 6861E+02	6. 7477E+02	7. 1200E+03	2. 5219E+00	7. 2331E+02
4. 3000E-01	1. 2720E+00	9. 4489E+01	2. 6844E+02	6. 7492E+02	7. 1200E+03	2. 5217E+00	7. 2389E+02
4. 3000E-01	1. 6455E+00	9. 2238E+01	2. 6826E+02	6. 7550E+02	7. 1200E+03	2. 5214E+00	7. 2447E+02
4. 5000E-01	1. 5114E+00	9. 0705E+01	2. 6807E+02	6. 7603E+02	7. 1200E+03	2. 5209E+00	7. 2499E+02
4. 5000E-01	1. 5816E+00	8. 8860E+01	2. 6787E+02	6. 7650E+02	7. 1200E+03	2. 5203E+00	7. 2541E+02
4. 6000E-01	1. 5551E+00	8. 7231E+01	2. 6766E+02	6. 7692E+02	7. 1200E+03	2. 5196E+00	7. 2583E+02
4. 6000E-01	1. 5551E+00	8. 7231E+01	2. 6766E+02	6. 7728E+02	7. 1200E+03	2. 5189E+00	7. 2619E+02

4.7000E-01	1.5319E+00	9.5807E+01	2.6745E+02	6.7761E+02	7.1200E+03	2.5182E+00	7.2650E+02
4.8000E-01	1.5114E+00	9.4887E+01	2.6723E+02	6.7789E+02	7.1200E+03	2.5174E+00	7.2674E+02
4.9000E-01	1.4937E+00	9.3774E+01	2.6701E+02	6.7817E+02	7.1200E+03	2.5166E+00	7.2697E+02
5.0000E-01	1.4786E+00	9.2855E+01	2.6678E+02	6.7845E+02	7.1200E+03	2.5158E+00	7.2715E+02
5.1000E-01	1.4664E+00	9.2273E+01	2.6655E+02	6.7873E+02	7.1200E+03	2.5150E+00	7.2728E+02
5.2000E-01	1.4562E+00	9.1833E+01	2.6632E+02	6.7899E+02	7.1200E+03	2.5142E+00	7.2740E+02
5.3000E-01	1.4483E+00	9.1439E+01	2.6608E+02	6.7886E+02	7.1200E+03	2.5135E+00	7.2747E+02
5.4000E-01	1.4425E+00	9.1078E+01	2.6585E+02	6.7873E+02	7.1200E+03	2.5128E+00	7.2752E+02
5.5000E-01	1.4385E+00	9.0746E+01	2.6561E+02	6.7876E+02	7.1200E+03	2.5121E+00	7.2753E+02
5.6000E-01	1.4365E+00	9.0427E+01	2.6537E+02	6.7879E+02	7.1200E+03	2.5114E+00	7.2752E+02
5.7000E-01	1.4361E+00	9.0124E+01	2.6514E+02	6.7879E+02	7.1200E+03	2.5108E+00	7.2749E+02
5.8000E-01	1.4373E+00	8.9836E+01	2.6490E+02	6.7866E+02	7.1200E+03	2.5103E+00	7.2743E+02
5.9000E-01	1.4398E+00	8.9609E+01	2.6466E+02	6.7866E+02	7.1200E+03	2.5097E+00	7.2735E+02
6.0000E-01	1.4439E+00	8.9441E+01	2.6443E+02	6.7852E+02	7.1200E+03	2.5091E+00	7.2725E+02
6.1000E-01	1.4491E+00	8.9329E+01	2.6420E+02	6.7841E+02	7.1200E+03	2.5086E+00	7.2715E+02
6.2000E-01	1.4555E+00	8.9271E+01	2.6397E+02	6.7828E+02	7.1200E+03	2.5081E+00	7.2701E+02
6.3000E-01	1.4629E+00	8.9268E+01	2.6374E+02	6.7814E+02	7.1200E+03	2.5076E+00	7.2686E+02
6.4000E-01	1.4712E+00	8.9320E+01	2.6351E+02	6.7798E+02	7.1200E+03	2.5071E+00	7.2670E+02
6.5000E-01	1.4804E+00	8.9434E+01	2.6329E+02	6.7781E+02	7.1200E+03	2.5066E+00	7.2654E+02
6.6000E-01	1.4904E+00	8.9609E+01	2.6307E+02	6.7763E+02	7.1200E+03	2.5061E+00	7.2635E+02
6.7000E-01	1.5011E+00	8.9852E+01	2.6286E+02	6.7744E+02	7.1200E+03	2.5057E+00	7.2616E+02
6.8000E-01	1.5125E+00	9.0166E+01	2.6264E+02	6.7724E+02	7.1200E+03	2.5053E+00	7.2597E+02
6.9000E-01	1.5244E+00	9.0552E+01	2.6243E+02	6.7703E+02	7.1200E+03	2.5049E+00	7.2578E+02
7.0000E-01	1.5368E+00	9.1010E+01	2.6223E+02	6.7681E+02	7.1200E+03	2.5046E+00	7.2554E+02
7.1000E-01	1.5496E+00	9.1543E+01	2.6203E+02	6.7659E+02	7.1200E+03	2.5043E+00	7.2534E+02
7.2000E-01	1.5629E+00	9.2153E+01	2.6183E+02	6.7636E+02	7.1200E+03	2.5040E+00	7.2510E+02
7.3000E-01	1.5765E+00	9.2840E+01	2.6164E+02	6.7613E+02	7.1200E+03	2.5038E+00	7.2487E+02
7.4000E-01	1.5903E+00	9.3604E+01	2.6145E+02	6.7589E+02	7.1200E+03	2.5036E+00	7.2463E+02
7.5000E-01	1.6044E+00	9.4447E+01	2.6126E+02	6.7565E+02	7.1200E+03	2.5034E+00	7.2441E+02
7.6000E-01	1.6187E+00	9.5377E+01	2.6108E+02	6.7541E+02	7.1200E+03	2.5032E+00	7.2417E+02
7.7000E-01	1.6332E+00	9.6407E+01	2.6090E+02	6.7517E+02	7.1200E+03	2.5030E+00	7.2392E+02
7.8000E-01	1.6479E+00	9.7536E+01	2.6073E+02	6.7493E+02	7.1200E+03	2.5028E+00	7.2370E+02
7.9000E-01	1.6621E+00	9.8765E+01	2.6056E+02	6.7468E+02	7.1200E+03	2.5026E+00	7.2346E+02
8.0000E-01	1.6767E+00	9.9994E+01	2.6040E+02	6.7444E+02	7.1200E+03	2.5024E+00	7.2321E+02
8.1000E-01	1.6912E+00	9.4707E+01	2.6024E+02	6.7419E+02	7.1200E+03	2.5022E+00	7.2297E+02
8.2000E-01	1.7059E+00	9.5367E+01	2.6008E+02	6.7395E+02	7.1200E+03	2.5020E+00	7.2275E+02
8.3000E-01	1.7209E+00	9.6244E+01	2.5993E+02	6.7371E+02	7.1200E+03	2.5018E+00	7.2251E+02
8.4000E-01	1.7347E+00	9.7116E+01	2.5978E+02	6.7347E+02	7.1200E+03	2.5016E+00	7.2227E+02
8.5000E-01	1.7490E+00	9.7765E+01	2.5964E+02	6.7323E+02	7.1200E+03	2.5014E+00	7.2206E+02
8.6000E-01	1.7632E+00	9.8244E+01	2.5950E+02	6.7300E+02	7.1200E+03	2.5012E+00	7.2182E+02
8.7000E-01	1.7772E+00	9.9474E+01	2.5937E+02	6.7277E+02	7.1200E+03	2.5010E+00	7.2159E+02
8.8000E-01	1.7910E+00	1.0010E+02	2.5924E+02	6.7254E+02	7.1200E+03	2.5102E+00	7.2139E+02
8.9000E-01	1.8048E+00	1.0094E+02	2.5911E+02	6.7231E+02	7.1200E+03	2.5106E+00	7.2116E+02
9.0000E-01	1.8183E+00	1.0175E+02	2.5899E+02	6.7209E+02	7.1200E+03	2.5109E+00	7.2094E+02
9.1000E-01	1.8316E+00	1.0256E+02	2.5887E+02	6.7187E+02	7.1200E+03	2.5113E+00	7.2072E+02
9.2000E-01	1.8447E+00	1.0315E+02	2.5875E+02	6.7165E+02	7.1200E+03	2.5117E+00	7.2053E+02
9.3000E-01	1.8576E+00	1.0393E+02	2.5864E+02	6.7144E+02	7.1200E+03	2.5121E+00	7.2032E+02
9.4000E-01	1.8702E+00	1.0470E+02	2.5853E+02	6.7124E+02	7.1200E+03	2.5125E+00	7.2011E+02
9.5000E-01	1.8825E+00	1.0548E+02	2.5843E+02	6.7103E+02	7.1200E+03	2.5128E+00	7.1993E+02
9.6000E-01	1.8947E+00	1.0600E+02	2.5833E+02	6.7083E+02	7.1200E+03	2.5132E+00	7.1973E+02
9.7000E-01	1.9068E+00	1.0672E+02	2.5823E+02	6.7064E+02	7.1200E+03	2.5136E+00	7.1954E+02
9.8000E-01	1.9182E+00	1.0735E+02	2.5814E+02	6.7045E+02	7.1200E+03	2.5140E+00	7.1937E+02
9.9000E-01	1.9296E+00	1.0794E+02	2.5805E+02	6.7026E+02	7.1200E+03	2.5144E+00	7.1919E+02
1.0000E+00	1.9407E+00	1.0862E+02	2.5796E+02	6.7008E+02	7.1200E+03	2.5148E+00	7.1901E+02

Appendix #35.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
1.0000E-05	7.4254E+04	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	-1.6999E-02	7.3134E-01	3.6397E+00	2.0756E-08
1.8280E-02	2.1589E-10	3.3568E+03	-6.9501E-03	-1.3078E+00	7.2410E-01	2.3127E+00	-2.2222E-05
7.4000E+00	2.4000E+00	3.6500E-08	-1.9928E-02	-2.0044E+00	7.0717E-01	1.5315E+00	-2.8383E-05
4.3290E-01	4.7700E-01	2.3400E-01	-3.3913E-02	-2.3716E+00	6.8510E-01	1.0539E+00	-2.7798E-05
0.0000E+00	0.0000E+00	0.0000E+00	-4.6579E-02	-2.5652E+00	6.6031E-01	7.3634E-01	-2.5044E-05
0.0000E-02	5.0500E+00	-6.2479E-08	-5.7172E-02	-2.8855E+00	6.3410E-01	5.0501E-01	-2.1856E-05
0.0000E-02	5.0500E+00	-6.9987E-08	-6.5622E-02	-2.7117E+00	6.0718E-01	3.2418E-01	-1.8833E-05
0.0000E-02	5.0500E+00	-9.5434E-08	-7.2115E-02	-2.7234E+00	5.7998E-01	1.7652E-01	-1.6167E-05
0.0000E-02	5.0500E+00	-9.9172E-08	-7.6910E-02	-2.7108E+00	5.5279E-01	5.3123E-02	-1.3877E-05
0.0000E-02	5.0500E+00	-1.0150E-05	-8.0269E-02	-2.6802E+00	5.2583E-01	-5.1089E-02	-1.1922E-05
1.0000E-01	5.0500E+00	-1.0265E-05	-8.2427E-02	-2.8355E+00	4.9924E-01	-1.3937E-01	-1.0259E-05
1.0000E-01	5.0500E+00	-1.0285E-05	-8.3587E-02	-2.5198E+00	4.7315E-01	-2.1404E-01	-8.8316E-06
1.2000E-01	5.0500E+00	-1.0725E-05	-8.3924E-02	-2.5153E+00	4.4767E-01	-2.7695E-01	-7.6046E-06
1.3000E-01	5.0500E+00	-1.0101E-05	-8.3563E-02	-2.4439E+00	4.287E-01	-3.2980E-01	-6.5504E-06
1.4000E-01	5.0500E+00	-9.9294E-06	-8.2695E-02	-2.3873E+00	3.9881E-01	-3.7326E-01	-5.6324E-06
1.5000E-01	5.0500E+00	-9.7076E-06	-8.1347E-02	-2.2867E+00	3.7584E-01	-4.0906E-01	-4.8231E-06
1.6000E-01	5.0500E+00	-9.4565E-06	-7.9643E-02	-2.2034E+00	3.5308E-01	-4.3799E-01	-4.1246E-06
1.7000E-01	5.0500E+00	-9.1796E-06	-7.7652E-02	-2.1182E+00	3.3147E-01	-4.6088E-01	-3.5149E-06
1.8000E-01	5.0500E+00	-8.8830E-06	-7.5436E-02	-2.0321E+00	3.1072E-01	-4.7851E-01	-2.9630E-06
1.9000E-01	5.0500E+00	-8.5721E-06	-7.3049E-02	-1.9457E+00	2.9083E-01	-4.9154E-01	-2.4825E-06
2.0000E-01	5.0500E+00	-8.2513E-06	-7.0595E-02	-1.8596E+00	2.7181E-01	-5.0057E-01	-2.0648E-06
2.1000E-01	5.0500E+00	-7.9244E-06	-6.7932E-02	-1.7743E+00	2.5364E-01	-5.0612E-01	-1.6871E-06
2.2000E-01	5.0500E+00	-7.5944E-06	-6.5272E-02	-1.6902E+00	2.3632E-01	-5.0866E-01	-1.3530E-06
2.3000E-01	5.0500E+00	-7.2641E-06	-6.2582E-02	-1.6077E+00	2.1983E-01	-5.0859E-01	-1.0638E-06
2.4000E-01	5.0500E+00	-6.9357E-06	-5.9884E-02	-1.5270E+00	2.0415E-01	-5.0627E-01	-8.0823E-07
2.5000E-01	5.0500E+00	-6.6110E-06	-5.7198E-02	-1.4484E+00	1.8928E-01	-5.0704E-01	-5.7607E-07
2.6000E-01	5.0500E+00	-6.2914E-06	-5.4539E-02	-1.3721E+00	1.7518E-01	-4.9616E-01	-3.7692E-07
2.7000E-01	5.0500E+00	-5.9784E-06	-5.1920E-02	-1.2980E+00	1.6183E-01	-4.8890E-01	-2.0680E-07
2.8000E-01	5.0500E+00	-5.6727E-06	-4.9351E-02	-1.2265E+00	1.4921E-01	-4.8045E-01	-4.8361E-08
2.9000E-01	5.0500E+00	-5.3868E-06	-4.6842E-02	-1.1575E+00	1.3729E-01	-4.7104E-01	8.6485E-08
3.0000E-01	5.0500E+00	-5.1075E-06	-4.4398E-02	-1.0911E+00	1.2605E-01	-4.6082E-01	1.9983E-07
3.1000E-01	5.0500E+00	-4.8475E-06	-4.2028E-02	-1.0272E+00	1.1546E-01	-4.4993E-01	3.0115E-07
3.2000E-01	5.0500E+00	-4.5979E-06	-3.9729E-02	-9.6601E-01	1.0550E-01	-4.3853E-01	3.8976E-07
3.3000E-01	5.0500E+00	-4.3782E-06	-3.7510E-02	-9.0728E-01	9.6133E-02	-4.2675E-01	4.6246E-07
3.4000E-01	5.0500E+00	-4.1782E-06	-3.5313E-02	-8.5129E-01	8.7323E-02	-4.1459E-01	5.2318E-07
3.5000E-01	5.0500E+00	-4.0284E-06	-3.3138E-02	-7.9744E-01	7.9086E-02	-4.0224E-01	5.7858E-07
3.6000E-01	5.0500E+00	-3.8886E-06	-3.1338E-02	-7.4668E-01	7.1379E-02	-3.8976E-01	6.2224E-07
3.7000E-01	5.0500E+00	-3.7590E-06	-2.9444E-02	-6.9800E-01	6.4157E-02	-3.7721E-01	6.5594E-07
3.8000E-01	5.0500E+00	-3.6390E-06	-2.7641E-02	-6.5169E-01	5.7411E-02	-3.6464E-01	6.8623E-07
3.9000E-01	5.0500E+00	-3.5285E-06	-2.5899E-02	-6.0769E-01	5.1116E-02	-3.5211E-01	7.0928E-07
4.0000E-01	5.0500E+00	-2.9285E-06	-2.4245E-02	-5.6591E-01	4.5250E-02	-3.3966E-01	7.2519E-07
4.1000E-01	5.0500E+00	-2.3767E-06	-2.2669E-02	-5.2629E-01	3.9790E-02	-3.2734E-01	7.3707E-07
4.2000E-01	5.0500E+00	-2.5558E-06	-2.1169E-02	-4.8875E-01	3.4717E-02	-3.1516E-01	7.4562E-07
4.3000E-01	5.0500E+00	-2.3830E-06	-2.1974E-02	-4.5321E-01	3.0009E-02	-3.0317E-01	7.4917E-07
4.4000E-01	5.0500E+00	-2.2189E-06	-1.8387E-02	-4.1981E-01	2.5646E-02	-2.9138E-01	7.4887E-07
4.5000E+00	5.0500E+00	-2.0632E-06					

4.5000E-01	5.0500E+00	-1.9157E-06	-1.7101E-02	-3.8787E-01	2.1610E-02	-2.7982E-01	7.4733E-07
4.8000E-01	5.0500E+00	-1.7781E-06	-1.5983E-02	-3.5792E-01	1.7883E-02	-2.6851E-01	7.4242E-07
4.9000E-01	5.0500E+00	-1.641E-06	-1.4729E-02	-3.2988E-01	1.4448E-02	-2.5744E-01	7.3490E-07
4.8000E-01	5.0500E+00	-1.5193E-06	-1.3638E-02	-3.0307E-01	1.1284E-02	-2.4665E-01	7.2606E-07
4.9000E-01	5.0500E+00	-1.4016E-06	-1.2607E-02	-2.7803E-01	8.3795E-03	-2.3613E-01	7.1548E-07
5.0000E-01	5.0500E+00	-1.2908E-06	-1.1634E-02	-2.5448E-01	5.7181E-03	-2.2590E-01	7.0336E-07
5.1000E-01	5.0500E+00	-1.1899E-06	-1.0716E-02	-2.3238E-01	3.2850E-03	-2.1595E-01	6.9019E-07
5.2000E-01	5.0500E+00	-1.0895E-06	-9.8510E-03	-2.1143E-01	1.0580E-03	-2.0630E-01	6.7592E-07
5.3000E-01	5.0500E+00	-9.8732E-07	-9.0378E-03	-1.9218E-01	9.5195E-04	-1.9694E-01	6.6095E-07
5.4000E-01	5.0500E+00	-8.2689E-07	-8.2718E-03	-1.7358E-01	-2.7816E-03	-1.8787E-01	6.4565E-07
5.5000E-01	5.0500E+00	-7.5027E-07	-7.5526E-03	-1.5682E-01	-4.4351E-03	-1.7910E-01	6.2913E-07
5.6000E-01	5.0500E+00	-6.7871E-07	-6.8778E-03	-1.4100E-01	-5.9238E-03	-1.7062E-01	6.1247E-07
5.7000E-01	5.0500E+00	-6.1177E-07	-6.2452E-03	-1.2613E-01	-7.2586E-03	-1.6243E-01	5.9598E-07
5.8000E-01	5.0500E+00	-5.4923E-07	-5.6527E-03	-1.1228E-01	-8.4498E-03	-1.5452E-01	5.7890E-07
5.9000E-01	5.0500E+00	-4.9086E-07	-5.0984E-03	-9.9369E-02	-9.5073E-03	-1.4691E-01	5.6141E-07
6.0000E-01	5.0500E+00	-4.3644E-07	-4.5804E-03	-8.7365E-02	-1.0440E-02	-1.3957E-01	5.4446E-07
6.1000E-01	5.0500E+00	-3.8578E-07	-4.0969E-03	-7.6216E-02	-1.1257E-02	-1.3250E-01	5.2783E-07
6.2000E-01	5.0500E+00	-3.3867E-07	-3.6460E-03	-6.5873E-02	-1.1967E-02	-1.2571E-01	5.1098E-07
6.3000E-01	5.0500E+00	-2.9492E-07	-3.2282E-03	-5.6293E-02	-1.2577E-02	-1.1918E-01	4.9317E-07
6.4000E-01	5.0500E+00	-2.5435E-07	-2.8357E-03	-4.7433E-02	-1.3095E-02	-1.1291E-01	4.7721E-07
6.5000E-01	5.0500E+00	-2.1678E-07	-2.4729E-03	-3.9233E-02	-1.3528E-02	-1.0689E-01	4.6011E-07
6.6000E-01	5.0500E+00	-1.8204E-07	-2.1365E-03	-3.1711E-02	-1.3883E-02	-1.0112E-01	4.4353E-07
6.7000E-01	5.0500E+00	-1.4998E-07	-1.8248E-03	-2.4733E-02	-1.4165E-02	-9.5596E-02	4.2808E-07
6.8000E-01	5.0500E+00	-1.2043E-07	-1.5366E-03	-1.8403E-02	-1.4380E-02	-9.0303E-02	4.1248E-07
6.9000E-01	5.0500E+00	-9.3261E-08	-1.2705E-03	-1.2585E-03	-1.4534E-02	-8.5237E-02	3.9648E-07
7.0000E-01	5.0500E+00	-8.8321E-08	-1.0525E-03	-2.3605E-03	-1.4681E-02	-8.0352E-02	3.8163E-07
7.1000E-01	5.0500E+00	-4.5477E-08	-7.9951E-04	-2.3605E-03	-1.4882E-02	-7.5763E-02	3.6785E-07
7.2000E-01	5.0500E+00	-2.4603E-08	-5.9230E-04	6.0798E-03	-1.4841E-02	-7.1373E-02	3.5250E-07
7.3000E-01	5.0500E+00	-5.5773E-09	-2.2890E-04	9.7071E-03	-1.4561E-02	-6.7100E-02	3.2558E-07
7.4000E-01	5.0500E+00	1.1714E-08	7.0850E-05	1.2972E-02	-1.4448E-02	-6.3100E-02	3.1193E-07
7.5000E-01	5.0500E+00	2.7384E-08	7.3256E-05	1.5902E-02	-1.4303E-02	-5.9266E-02	2.9863E-07
7.6000E-01	5.0500E+00	4.1536E-08	2.0373E-04	1.8516E-02	-1.4131E-02	-5.5613E-02	2.8659E-07
7.7000E-01	5.0500E+00	5.4268E-08	3.2162E-04	2.0837E-02	-1.3934E-02	-5.2137E-02	2.7487E-07
7.8000E-01	5.0500E+00	6.5672E-08	4.2776E-04	2.2885E-02	-1.3715E-02	-4.8832E-02	2.6366E-07
7.9000E-01	5.0500E+00	7.5844E-08	5.2292E-04	2.4680E-02	-1.3477E-02	-4.5689E-02	2.5112E-07
8.0000E-01	5.0500E+00	8.4862E-08	6.0784E-04	2.6239E-02	-1.3222E-02	-4.2704E-02	2.3957E-07
8.1000E-01	5.0500E+00	9.2809E-08	6.8322E-04	2.7579E-02	-1.2953E-02	-3.9871E-02	2.2910E-07
8.2000E-01	5.0500E+00	9.9762E-08	7.4972E-04	2.8719E-02	-1.2671E-02	-3.7184E-02	2.1910E-07
8.3000E-01	5.0500E+00	1.0579E-07	8.0797E-04	2.9671E-02	-1.2378E-02	-3.4637E-02	2.0981E-07
8.4000E-01	5.0500E+00	1.0988E-07	8.5855E-04	3.0450E-02	-1.2078E-02	-3.2224E-02	2.0011E-07
8.5000E-01	5.0500E+00	1.1534E-07	9.0203E-04	3.1071E-02	-1.1771E-02	-2.9941E-02	1.9038E-07
8.6000E-01	5.0500E+00	1.1899E-07	9.3893E-04	3.1547E-02	-1.1457E-02	-2.7781E-02	1.8181E-07
8.7000E-01	5.0500E+00	1.2196E-07	9.6976E-04	3.1888E-02	-1.1140E-02	-2.5812E-02	1.7382E-07
8.8000E-01	5.0500E+00	1.2431E-07	9.9499E-04	3.2105E-02	-1.0820E-02	-2.3915E-02	1.6480E-07
8.9000E-01	5.0500E+00	1.2609E-07	1.0150E-03	3.2214E-02	-1.0498E-02	-2.2278E-02	1.5689E-07
9.0000E-01	5.0500E+00	1.2734E-07	1.0304E-03	3.2218E-02	-1.0176E-02	-2.0795E-02	1.5000E-07
9.1000E-01	5.0500E+00	1.2811E-07	1.0413E-03	3.2130E-02	-9.8542E-03	-1.9421E-02	1.4213E-07
9.2000E-01	5.0500E+00	1.2845E-07	1.0483E-03	3.1959E-02	-9.5337E-03	-1.8170E-02	1.3484E-07
9.3000E-01	5.0500E+00	1.2839E-07	1.0516E-03	3.1711E-02	-9.2153E-03	-1.6965E-02	1.2853E-07
9.4000E-01	5.0500E+00	1.2797E-07	1.0516E-03	3.1395E-02	-8.8976E-03	-1.5810E-02	1.2215E-07
9.5000E-01	5.0500E+00	1.2722E-07	1.0486E-03	3.1019E-02	-8.5876E-03	-1.4719E-02	1.1545E-07
9.6000E-01	5.0500E+00	1.2617E-07	1.0429E-03	3.0589E-02	-8.2795E-03	-1.3689E-02	1.0967E-07
9.7000E-01	5.0500E+00	1.2486E-07	1.0347E-03	3.0110E-02	-7.9760E-03	-1.2702E-02	1.0461E-07
9.8000E-01	5.0500E+00	1.2331E-07	1.0244E-03	2.9589E-02	-7.6775E-03	-1.1811E-02	9.9770E-08
1.0000E+00	5.0500E+00	1.2155E-07	1.0120E-03	2.9031E-02	-7.3843E-03	-1.0985E-02	9.8459E-08
							9.3176E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
0.000E+00	7.4254E+04	9.0500E+01	6.0500E+03	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	6.9000E-04	0.0000E+00	1.8940E+01	1.8940E+01	2.5600E+01	7.4400E+01	1.7140E+00
7.8280E+02	2.189E-10	3.3566E+03	2.7800E+01	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E+06	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E+01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	1.2000E-08	1.2215E+01	7.2259E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	1.6730E-09	6.4773E-07	2.6566E-02	4.5523E+00	7.4113E+02	7.1046E+01	8.5739E+03
1.0000E-02	1.5971E-09	6.2189E-07	2.8409E-02	4.4858E+00	7.3142E+02	4.1000E+01	7.0185E+03
2.0000E-02	1.4427E-09	6.3753E-07	2.8257E-02	4.4946E+00	7.3117E+02	2.2185E+01	7.0180E+03
3.0000E-02	1.2751E-09	6.5899E-07	2.8336E-02	4.5433E+00	7.3594E+02	1.4792E+01	5.8221E+03
4.0000E-02	1.1187E-09	6.7067E-07	2.8549E-02	4.5915E+00	7.4598E+02	8.7473E+00	4.7437E+03
5.0000E-02	9.8035E-10	6.7455E-07	2.8784E-02	4.6283E+00	7.5289E+02	6.0996E+00	3.8168E+03
6.0000E-02	8.6048E-10	6.7434E-07	2.8979E-02	4.6528E+00	7.5736E+02	3.7142E+00	3.0263E+03
7.0000E-02	7.6742E-10	6.7176E-07	2.9190E-02	4.6656E+00	7.5822E+02	1.0541E+00	2.3599E+03
8.0000E-02	6.8966E-10	6.6782E-07	2.9402E-02	4.6682E+00	7.6001E+02	-7.2018E-01	1.7926E+03
9.0000E-02	6.3010E-10	6.6281E-07	2.9602E-02	4.6690E+00	7.5824E+02	-2.4768E+00	1.3094E+03
1.0000E-01	5.7711E-10	6.5896E-07	2.9785E-02	4.6683E+00	7.5725E+02	-4.1694E+00	8.9777E+02
1.2000E-01	4.7151E-10	6.5447E-07	2.9942E-02	4.6653E+00	7.5516E+02	-4.9701E+00	5.4522E+02
1.4000E-01	3.8141E-10	6.5003E-07	2.7031E-02	4.6157E+00	7.5178E+02	-6.2934E+00	2.4398E+02
1.6000E-01	3.0555E-10	6.4552E-07	2.8919E-02	4.5935E+00	7.4792E+02	-7.5181E+00	-1.2853E+01
1.8000E-01	2.4747E-10	6.4126E-07	2.8794E-02	4.5697E+00	7.4482E+02	-7.5657E+00	-2.3229E+02
2.0000E-01	2.0837E-10	6.3739E-07	2.8658E-02	4.5455E+00	7.4052E+02	-8.5192E+00	-4.1983E+02
2.2000E-01	1.7688E-10	6.3348E-07	2.8516E-02	4.5204E+00	7.3613E+02	-9.3642E+00	-5.7805E+02
2.4000E-01	1.4983E-10	6.2938E-07	2.8372E-02	4.4949E+00	7.3283E+02	-9.0095E+00	-6.2344E+02
2.6000E-01	1.2707E-10	6.2510E-07	2.8227E-02	4.4707E+00	7.2947E+02	-9.6512E+00	-7.1070E+02
2.8000E-01	1.0836E-10	6.2078E-07	2.8084E-02	4.4466E+00	7.2611E+02	-1.0201E+01	-8.1618E+02
3.0000E-01	9.2936E-11	6.1646E-07	2.7950E-02	4.4227E+00	7.2281E+02	-1.0656E+01	-9.9127E+02
3.2000E-01	7.9740E-11	6.1206E-07	2.5875E-02	4.4003E+00	7.1708E+02	-1.0044E+01	-1.0526E+03
3.4000E-01	6.8498E-11	6.0723E-07	2.5428E-02	4.3578E+00	7.0958E+02	-1.0370E+01	-1.1010E+03
3.6000E-01	5.8716E-11	6.0298E-07	2.5249E-02	4.3380E+00	7.0899E+02	-1.0618E+01	-1.1373E+03
3.8000E-01	5.0000E-11	5.9876E-07	2.5313E-02	4.3020E+00	7.0365E+02	-9.9487E+00	-1.1635E+03
4.0000E-01	4.2936E-11	5.9460E-07	2.5204E-02	4.2852E+00	7.0084E+02	-1.0108E+01	-1.1818E+03
4.2000E-01	3.7258E-11	5.9055E-07	2.5102E-02	4.2852E+00	6.9763E+02	-1.0208E+01	-1.1918E+03
4.4000E-01	3.2800E-11	5.8660E-07	2.5005E-02	4.2700E+00	6.9557E+02	-1.0279E+01	-1.1946E+03
4.6000E-01	2.9300E-11	5.8275E-07	2.4915E-02	4.2566E+00	6.9301E+02	-9.5797E+00	-1.1927E+03
4.8000E-01	2.6600E-11	5.7890E-07	2.4831E-02	4.2439E+00	6.9063E+02	-9.5725E+00	-1.1854E+03
5.0000E-01	2.4600E-11	5.7505E-07	2.4752E-02	4.2325E+00	6.8897E+02	-9.5212E+00	-1.1732E+03
5.2000E-01	2.3100E-11	5.7120E-07	2.4679E-02	4.2229E+00	6.8692E+02	-8.9011E+00	-1.1578E+03
5.4000E-01	2.1800E-11	5.6735E-07	2.4612E-02	4.2141E+00	6.8504E+02	-8.2080E+00	-1.1394E+03
5.6000E-01	2.0600E-11	5.6350E-07	2.4550E-02	4.1976E+00	6.8374E+02	-8.7059E+00	-1.1180E+03
5.8000E-01	1.9500E-11	5.5965E-07	2.4493E-02	4.1888E+00	6.8215E+02	-8.0211E+00	-1.0942E+03
6.0000E-01	1.8500E-11	5.5580E-07	2.4441E-02	4.1807E+00	6.8071E+02	-7.8665E+00	-1.0424E+03
6.2000E-01	1.7600E-11	5.5200E-07	2.4394E-02	4.1733E+00	6.7942E+02	-7.6897E+00	-1.0142E+03
6.4000E-01	1.6800E-11	5.4825E-07	2.4351E-02	4.1668E+00	6.7855E+02	-7.2196E+00	-9.8551E+02
6.6000E-01	1.6100E-11	5.4450E-07	2.4313E-02	4.1610E+00	6.7750E+02	-7.0403E+00	-9.5607E+02
6.8000E-01	1.5500E-11	5.4075E-07	2.4278E-02	4.1557E+00	6.7657E+02	-6.8448E+00	-9.2599E+02
7.0000E-01	1.5000E-11	5.3700E-07	2.4248E-02	4.1511E+00	6.7596E+02	-6.4458E+00	-8.9576E+02
7.2000E-01	1.4500E-11	5.3325E-07	2.4221E-02	4.1472E+00	6.7524E+02	-6.2533E+00	-8.6555E+02
7.4000E-01	1.4100E-11	5.2950E-07	2.4198E-02	4.1438E+00	6.7463E+02	-6.0492E+00	-8.3525E+02
7.6000E-01	1.3700E-11	5.2575E-07	2.4178E-02	4.1408E+00	6.7424E+02	-5.7177E+00	-8.0505E+02
7.8000E-01	1.3300E-11	5.2200E-07	2.4161E-02	4.1385E+00	6.7380E+02	-5.5200E+00	-7.7533E+02
8.0000E-01	1.2900E-11	5.1825E-07	2.4147E-02	4.1366E+00	6.7346E+02	-5.3145E+00	-7.4587E+02

4. 7000E-01 2. 3898E-10 5. 8806E-07 2. 4135E-02 4. 1351E+00 6. 7320E+02 -5. 1027E+00 -7. 1681E+02  
4. 8000E-01 2. 4329E-10 5. 8809E-07 2. 4127E-02 4. 1341E+00 6. 7305E+02 -4. 8479E+00 -6. 8832E+02  
5. 9000E-01 2. 4755E-10 5. 8816E-07 2. 4121E-02 4. 1344E+00 6. 7293E+02 -4. 6458E+00 -6. 6038E+02  
5. 1000E-01 2. 5173E-10 5. 8843E-07 2. 4117E-02 4. 1331E+00 6. 7287E+02 -4. 4401E+00 -6. 3303E+02  
5. 2000E-01 2. 5884E-10 5. 8861E-07 2. 4115E-02 4. 1335E+00 6. 7292E+02 -4. 2393E+00 -6. 0634E+02  
5. 3000E-01 2. 6382E-10 5. 8882E-07 2. 4112E-02 4. 1341E+00 6. 7303E+02 -3. 8470E+00 -5. 8032E+02  
5. 4000E-01 2. 6767E-10 5. 8908E-07 2. 4126E-02 4. 1351E+00 6. 7319E+02 -3. 6492E+00 -5. 5500E+02  
5. 5000E-01 2. 7143E-10 5. 8934E-07 2. 4133E-02 4. 1362E+00 6. 7334E+02 -3. 5044E+00 -5. 3044E+02  
5. 6000E-01 2. 7510E-10 5. 8964E-07 2. 4141E-02 4. 1376E+00 6. 7358E+02 -3. 3208E+00 -4. 8338E+02  
5. 7000E-01 2. 7866E-10 5. 8997E-07 2. 4150E-02 4. 1392E+00 6. 7386E+02 -3. 1348E+00 -4. 6103E+02  
5. 8000E-01 2. 8213E-10 5. 9031E-07 2. 4160E-02 4. 1410E+00 6. 7409E+02 -3. 0324E+00 -4. 3938E+02  
5. 9000E-01 2. 8549E-10 5. 9065E-07 2. 4172E-02 4. 1430E+00 6. 7443E+02 -2. 8572E+00 -4. 1843E+02  
6. 0000E-01 2. 8876E-10 5. 9103E-07 2. 4175E-02 4. 1451E+00 6. 7481E+02 -2. 6835E+00 -3. 9878E+02  
6. 1000E-01 2. 9192E-10 5. 9144E-07 2. 4184E-02 4. 1474E+00 6. 7511E+02 -2. 6145E+00 -3. 7868E+02  
6. 2000E-01 2. 9498E-10 5. 9181E-07 2. 4198E-02 4. 1498E+00 6. 7552E+02 -2. 4511E+00 -3. 6086E+02  
6. 3000E-01 2. 9794E-10 5. 9223E-07 2. 4212E-02 4. 1523E+00 6. 7597E+02 -2. 2901E+00 -3. 4206E+02  
6. 4000E-01 3. 0080E-10 5. 9267E-07 2. 4226E-02 4. 1550E+00 6. 7643E+02 -2. 1317E+00 -3. 2482E+02  
6. 5000E-01 3. 0356E-10 5. 9306E-07 2. 4243E-02 4. 1577E+00 6. 7692E+02 -2. 0873E+00 -3. 0811E+02  
6. 6000E-01 3. 0623E-10 5. 9350E-07 2. 4257E-02 4. 1604E+00 6. 7748E+02 -2. 0478E+00 -2. 9209E+02  
6. 7000E-01 3. 0880E-10 5. 9396E-07 2. 4274E-02 4. 1633E+00 6. 7798E+02 -1. 9487E+00 -2. 7683E+02  
6. 8000E-01 3. 1128E-10 5. 9440E-07 2. 4290E-02 4. 1663E+00 6. 7852E+02 -1. 8032E+00 -2. 6215E+02  
6. 9000E-01 3. 1367E-10 5. 9483E-07 2. 4307E-02 4. 1692E+00 6. 7869E+02 -1. 7905E+00 -2. 4800E+02  
7. 0000E-01 3. 1597E-10 5. 9528E-07 2. 4324E-02 4. 1722E+00 6. 7921E+02 -1. 5207E+00 -2. 3455E+02  
7. 1000E-01 3. 1817E-10 5. 9576E-07 2. 4342E-02 4. 1753E+00 6. 7961E+02 -1. 5254E+00 -2. 2178E+02  
7. 2000E-01 3. 2030E-10 5. 9617E-07 2. 4360E-02 4. 1783E+00 6. 8015E+02 -1. 4003E+00 -2. 0934E+02  
7. 3000E-01 3. 2234E-10 5. 9662E-07 2. 4378E-02 4. 1814E+00 6. 8069E+02 -1. 2789E+00 -1. 9758E+02  
7. 4000E-01 3. 2430E-10 5. 9709E-07 2. 4396E-02 4. 1845E+00 6. 8124E+02 -1. 1613E+00 -1. 8642E+02  
7. 5000E-01 3. 2618E-10 5. 9752E-07 2. 4414E-02 4. 1876E+00 6. 8164E+02 -1. 1613E+00 -1. 7565E+02  
7. 6000E-01 3. 2798E-10 5. 9794E-07 2. 4432E-02 4. 1907E+00 6. 8219E+02 -1. 0727E+00 -1. 6537E+02  
7. 7000E-01 3. 2970E-10 5. 9839E-07 2. 4450E-02 4. 1938E+00 6. 8273E+02 -9. 6614E-01 -1. 5568E+02  
7. 8000E-01 3. 3136E-10 5. 9883E-07 2. 4468E-02 4. 1968E+00 6. 8313E+02 -9. 9750E-01 -1. 4645E+02  
7. 9000E-01 3. 3294E-10 5. 9923E-07 2. 4485E-02 4. 1998E+00 6. 8366E+02 -8. 8745E-01 -1. 3753E+02  
8. 0000E-01 3. 3446E-10 5. 9965E-07 2. 4503E-02 4. 2029E+00 6. 8419E+02 -8. 0123E-01 -1. 2914E+02  
8. 1000E-01 3. 3591E-10 6. 0010E-07 2. 4521E-02 4. 2059E+00 6. 8472E+02 -7. 0691E-01 -1. 2172E+02  
8. 2000E-01 3. 3730E-10 6. 0048E-07 2. 4538E-02 4. 2088E+00 6. 8511E+02 -7. 4909E-01 -1. 1357E+02  
8. 3000E-01 3. 3862E-10 6. 0087E-07 2. 4555E-02 4. 2117E+00 6. 8562E+02 -6. 6240E-01 -1. 0634E+02  
8. 4000E-01 3. 3989E-10 6. 0129E-07 2. 4572E-02 4. 2146E+00 6. 8613E+02 -5. 7850E-01 -9. 9573E+01  
8. 5000E-01 3. 4110E-10 6. 0167E-07 2. 4588E-02 4. 2174E+00 6. 8650E+02 -5. 2387E-01 -8. 3072E+01  
8. 6000E-01 3. 4225E-10 6. 0203E-07 2. 4605E-02 4. 2202E+00 6. 8699E+02 -5. 4596E-01 -6. 6863E+01  
8. 7000E-01 3. 4335E-10 6. 0241E-07 2. 4622E-02 4. 2230E+00 6. 8748E+02 -4. 7169E-01 -5. 1075E+01  
8. 8000E-01 3. 4440E-10 6. 0279E-07 2. 4638E-02 4. 2257E+00 6. 8783E+02 -5. 1851E-01 -4. 5633E+01  
8. 9000E-01 3. 4539E-10 6. 0313E-07 2. 4654E-02 4. 2283E+00 6. 8830E+02 -4. 865E-01 -4. 0324E+01  
9. 0000E-01 3. 4634E-10 6. 0347E-07 2. 4669E-02 4. 2309E+00 6. 8876E+02 -3. 8226E-01 -3. 5393E+01  
9. 1000E-01 3. 4725E-10 6. 0384E-07 2. 4684E-02 4. 2334E+00 6. 8920E+02 -3. 1932E-01 -3. 0823E+01  
9. 2000E-01 3. 4811E-10 6. 0415E-07 2. 4699E-02 4. 2359E+00 6. 8953E+02 -2. 6760E-01 -2. 6359E+01  
9. 3000E-01 3. 4893E-10 6. 0447E-07 2. 4713E-02 4. 2383E+00 6. 8996E+02 -2. 0839E-01 -2. 2177E+01  
9. 4000E-01 3. 4970E-10 6. 0480E-07 2. 4728E-02 4. 2407E+00 6. 9038E+02 -2. 5243E-01 -1. 8315E+01  
9. 5000E-01 3. 5044E-10 6. 0510E-07 2. 4741E-02 4. 2430E+00 6. 9066E+02 -2. 0032E-01 -1. 4639E+01  
9. 6000E-01 3. 5114E-10 6. 0539E-07 2. 4755E-02 4. 2453E+00 6. 9108E+02 -1. 4107E+01 -1. 1107E+01  
9. 7000E-01 3. 5181E-10 6. 0568E-07 2. 4768E-02 4. 2475E+00 6. 9147E+02 -1. 9798E-01 -7. 7860E+01  
9. 8000E-01 3. 5244E-10 6. 0599E-07 2. 4781E-02 4. 2497E+00 6. 9176E+02 -2. 4465E-01 -3. 4866E+01  
9. 9000E-01 3. 5304E-10 6. 0624E-07 2. 4793E-02 4. 2517E+00 6. 9212E+02 -1. 9786E-01 -3. 1886E+01  
1. 0000E+00 3. 5360E-10 6. 0650E-07 2. 4806E-02 4. 2537E+00 6. 9248E+02 -1. 5390E-01 -2. 9181E+01

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
0.000E+00	2.5953E-01	4.0398E+01	1.0070E-05	1.0000E+01	-2.4683E-07	7.5776E-06	9.4956E-07
1.000E-02	1.1996E+02	4.1637E+01	1.0083E-05	1.0000E+01	1.6080E-07	7.5772E-06	1.1969E-06
2.000E-02	8.6098E+01	4.2759E+01	1.0117E-05	1.0000E+01	-6.4141E-08	7.5784E-06	1.0901E-06
3.000E-02	7.0044E+01	4.4485E+01	1.0298E-05	1.0000E+01	-1.3265E-08	7.5747E-06	6.6786E-07
4.000E-02	5.6291E+01	4.5115E+01	1.0798E-05	1.0000E+01	-1.8863E-08	7.5643E-06	2.7275E-07
5.000E-02	4.4576E+01	4.5617E+01	1.0372E-05	1.0000E+01	-2.2893E-08	7.5479E-06	-1.2254E-07
6.000E-02	3.6244E+01	4.6012E+01	1.0450E-05	1.0000E+01	-2.5307E-08	7.5269E-06	-4.1836E-07
7.000E-02	2.9055E+01	4.6315E+01	1.0528E-05	1.0000E+01	-2.6945E-08	7.4765E-06	-6.0366E-07
8.000E-02	2.3072E+01	4.6541E+01	1.0605E-05	1.0000E+01	-2.7583E-08	7.4492E-06	-7.2371E-07
9.000E-02	1.8077E+00	4.6701E+01	1.0680E-05	1.0000E+01	-2.7437E-08	7.4215E-06	-7.6929E-07
1.000E-01	1.3947E+00	4.6805E+01	1.0752E-05	1.0000E+01	-2.7109E-08	7.3942E-06	-7.2213E-07
1.200E-01	1.0807E+00	4.6861E+01	1.0820E-05	1.0000E+01	-2.6005E-08	7.3677E-06	-6.3737E-07
1.400E-01	8.1455E+00	4.6878E+01	1.0884E-05	1.0000E+01	-2.4546E-08	7.3423E-06	-5.2937E-07
1.600E-01	6.2311E+00	4.6860E+01	1.0944E-05	1.0000E+01	-2.3405E-08	7.3162E-06	-4.5691E-07
1.800E-01	5.2145E+00	4.6741E+01	1.1048E-05	1.0000E+01	-2.1870E-08	7.2959E-06	-3.8569E-07
2.000E-01	4.10070E+00	4.6541E+01	1.1132E-05	1.0000E+01	-1.8193E-08	7.2752E-06	-3.0591E-07
2.200E-01	3.0000E+00	4.6315E+01	1.1197E-05	1.0000E+01	-1.4146E-08	7.2584E-06	-2.3072E-08
2.400E-01	2.0000E+00	4.6140E+01	1.1222E-05	1.0000E+01	-1.2156E-08	7.2243E-06	-1.6892E-07
2.600E-01	1.4780E+01	4.5988E+01	1.1243E-05	1.0000E+01	-1.0727E-08	7.1995E-06	-1.2110E-06
2.800E-01	1.15436E+01	4.5832E+01	1.1260E-05	1.0000E+01	-8.8297E-07	7.1899E-06	-8.3976E-07
3.000E-01	1.59233E+01	4.5670E+01	1.1273E-05	1.0000E+01	-7.0030E-07	7.1819E-06	-5.5876E-07
3.200E-01	1.6273E+01	4.5506E+01	1.1282E-05	1.0000E+01	-5.6974E-07	7.1755E-06	-4.7454E-07
3.400E-01	1.6516E+01	4.5341E+01	1.1287E-05	1.0000E+01	-4.0116E-07	7.1708E-06	-3.9647E-07
3.600E-01	1.6678E+01	4.5174E+01	1.1289E-05	1.0000E+01	-2.4125E-07	7.1676E-06	-3.2141E-07
3.800E-01	1.6760E+01	4.5007E+01	1.1288E-05	1.0000E+01	-9.0238E-08	7.1658E-06	-2.557E-06
4.000E-01	1.6548E+01	4.4841E+01	1.1284E-05	1.0000E+01	1.7069E-08	7.1654E-06	-1.0557E-06
4.200E-01	1.6589E+01	4.4676E+01	1.1277E-05	1.0000E+01	1.5229E-07	7.1648E-06	-1.229E-06
4.400E-01	1.6382E+01	4.4515E+01	1.1268E-05	1.0000E+01	2.7858E-07	7.1644E-06	-1.2609E-06
4.600E-01	1.6173E+01	4.4353E+01	1.1266E-05	1.0000E+01	6.8311E-07	7.1716E-06	-1.3360E-06
4.800E-01	1.5925E+01	4.4195E+01	1.1256E-05	1.0000E+01	4.7925E-07	7.1759E-06	-1.4023E-06
5.000E-01	1.5636E+01	4.4195E+01	1.1243E-05	1.0000E+01	5.8178E-07	7.1817E-06	-1.4634E-06
5.200E-01	1.5317E+01	4.4040E+01	1.1228E-05	1.0000E+01	6.5459E-07	7.1874E-06	-1.5075E-06
5.400E-01	1.4981E+01	4.3889E+01	1.1211E-05	1.0000E+01	6.5489E-07	7.1945E-06	-1.5598E-06
5.600E-01	1.4621E+01	4.3741E+01	1.1192E-05	1.0000E+01	7.4289E-07	7.2023E-06	-1.6074E-06
5.800E-01	1.4242E+01	4.3597E+01	1.1173E-05	1.0000E+01	8.2352E-07	7.2106E-06	-1.6507E-06
6.000E-01	1.3857E+01	4.3456E+01	1.1152E-05	1.0000E+01	9.4858E-07	7.2201E-06	-1.6817E-06
6.200E-01	1.3461E+01	4.3319E+01	1.1130E-05	1.0000E+01	1.0096E+01	7.2299E-06	-1.7176E-06
6.400E-01	1.3056E+01	4.3187E+01	1.1108E-05	1.0000E+01	1.0642E-06	7.2407E-06	-1.7497E-06
6.600E-01	1.2649E+01	4.3058E+01	1.1084E-05	1.0000E+01	1.1072E-06	7.2511E-06	-1.7726E-06
6.800E-01	1.2241E+01	4.2934E+01	1.1060E-05	1.0000E+01	1.1466E-06	7.2623E-06	-1.7984E-06
7.000E-01	1.1832E+01	4.2814E+01	1.1036E-05	1.0000E+01	1.1849E-06	7.2740E-06	-1.8208E-06
7.200E-01	1.1423E+01	4.2697E+01	1.1011E-05	1.0000E+01	1.2117E-06	7.2860E-06	-1.8368E-06
7.400E-01	1.1020E+01	4.2585E+01	1.0986E-05	1.0000E+01	1.2409E-06	7.2983E-06	-1.8539E-06
7.600E-01	1.0620E+01	4.2477E+01	1.0961E-05	1.0000E+01	1.2653E-06	7.3108E-06	-1.8682E-06

4.7000E-01	4.2373E+01	1.0936E-05	1.0000E+01	1.2851E-06	7.3236E-06	1.8799E-06
4.8000E-01	4.2272E+01	1.0910E-05	1.0000E+01	1.2988E-06	7.3365E-06	1.8860E-06
4.9000E-01	4.2176E+01	1.0885E-05	1.0000E+01	1.3114E-06	7.3495E-06	1.8955E-06
5.0000E-01	4.2083E+01	1.0860E-05	1.0000E+01	1.3203E-06	7.3627E-06	1.9008E-06
5.1000E-01	4.1994E+01	1.0835E-05	1.0000E+01	1.3281E-06	7.3759E-06	1.9043E-06
5.2000E-01	4.1909E+01	1.0810E-05	1.0000E+01	1.3290E-06	7.3892E-06	1.9061E-06
5.3000E-01	4.1827E+01	1.0786E-05	1.0000E+01	1.3289E-06	7.4025E-06	1.9062E-06
5.4000E-01	4.1749E+01	1.0761E-05	1.0000E+01	1.3259E-06	7.4158E-06	1.9046E-06
5.5000E-01	4.1674E+01	1.0736E-05	1.0000E+01	1.3232E-06	7.4290E-06	1.9031E-06
5.6000E-01	4.1602E+01	1.0714E-05	1.0000E+01	1.3157E-06	7.4422E-06	1.8989E-06
5.7000E-01	4.1534E+01	1.0691E-05	1.0000E+01	1.3059E-06	7.4553E-06	1.8935E-06
5.8000E-01	4.1468E+01	1.0669E-05	1.0000E+01	1.2984E-06	7.4684E-06	1.8892E-06
5.9000E-01	4.1406E+01	1.0647E-05	1.0000E+01	1.2851E-06	7.4813E-06	1.8816E-06
6.0000E-01	4.1346E+01	1.0625E-05	1.0000E+01	1.2700E-06	7.4941E-06	1.8731E-06
6.1000E-01	4.1290E+01	1.0604E-05	1.0000E+01	1.2587E-06	7.5067E-06	1.8666E-06
6.2000E-01	4.1236E+01	1.0583E-05	1.0000E+01	1.2409E-06	7.5192E-06	1.8564E-06
6.3000E-01	4.1184E+01	1.0563E-05	1.0000E+01	1.2218E-06	7.5315E-06	1.8455E-06
6.4000E-01	4.1135E+01	1.0544E-05	1.0000E+01	1.2015E-06	7.5436E-06	1.8340E-06
6.5000E-01	4.1089E+01	1.0525E-05	1.0000E+01	1.1865E-06	7.5556E-06	1.8215E-06
6.6000E-01	4.1044E+01	1.0506E-05	1.0000E+01	1.1844E-06	7.5673E-06	1.8080E-06
6.7000E-01	4.1002E+01	1.0488E-05	1.0000E+01	1.1845E-06	7.5789E-06	1.7996E-06
6.8000E-01	4.0963E+01	1.0471E-05	1.0000E+01	1.1455E-06	7.5902E-06	1.7899E-06
6.9000E-01	4.0925E+01	1.0454E-05	1.0000E+01	1.1246E-06	7.6013E-06	1.7762E-06
7.0000E-01	4.0888E+01	1.0438E-05	1.0000E+01	1.1059E-06	7.6122E-06	1.7516E-06
7.1000E-01	4.0855E+01	1.0422E-05	1.0000E+01	1.0758E-06	7.6229E-06	1.7272E-06
7.2000E-01	4.0823E+01	1.0407E-05	1.0000E+01	1.0325E-06	7.6333E-06	1.7025E-06
7.3000E-01	4.0793E+01	1.0393E-05	1.0000E+01	1.0069E-06	7.6435E-06	1.6772E-06
7.4000E-01	4.0764E+01	1.0378E-05	1.0000E+01	9.8096E-07	7.6534E-06	1.6511E-06
7.5000E-01	4.0737E+01	1.0365E-05	1.0000E+01	9.6207E-07	7.6632E-06	1.6266E-06
7.6000E-01	4.0712E+01	1.0352E-05	1.0000E+01	9.3605E-07	7.6728E-06	1.6012E-06
7.7000E-01	4.0688E+01	1.0339E-05	1.0000E+01	9.0999E-07	7.6819E-06	1.5769E-06
7.8000E-01	4.0665E+01	1.0327E-05	1.0000E+01	8.9097E-07	7.6909E-06	1.5531E-06
7.9000E-01	4.0644E+01	1.0315E-05	1.0000E+01	8.6506E-07	7.6996E-06	1.5297E-06
8.0000E-01	4.0624E+01	1.0304E-05	1.0000E+01	8.3926E-07	7.7082E-06	1.5066E-06
8.1000E-01	4.0605E+01	1.0293E-05	1.0000E+01	8.1364E-07	7.7164E-06	1.4837E-06
8.2000E-01	4.0587E+01	1.0283E-05	1.0000E+01	7.9502E-07	7.7245E-06	1.4612E-06
8.3000E-01	4.0571E+01	1.0273E-05	1.0000E+01	7.6985E-07	7.7323E-06	1.4392E-06
8.4000E-01	4.0555E+01	1.0264E-05	1.0000E+01	7.4497E-07	7.7399E-06	1.4177E-06
8.5000E-01	4.0541E+01	1.0255E-05	1.0000E+01	7.2688E-07	7.7473E-06	1.3966E-06
8.6000E-01	4.0527E+01	1.0246E-05	1.0000E+01	7.0282E-07	7.7544E-06	1.3759E-06
8.7000E-01	4.0514E+01	1.0238E-05	1.0000E+01	6.7872E-07	7.7613E-06	1.3556E-06
8.8000E-01	4.0503E+01	1.0230E-05	1.0000E+01	6.6135E-07	7.7680E-06	1.3357E-06
8.9000E-01	4.0492E+01	1.0222E-05	1.0000E+01	6.3820E-07	7.7745E-06	1.3162E-06
9.0000E-01	4.0481E+01	1.0215E-05	1.0000E+01	6.1548E-07	7.7808E-06	1.2971E-06
9.1000E-01	4.0472E+01	1.0208E-05	1.0000E+01	5.9321E-07	7.7869E-06	1.2784E-06
9.2000E-01	4.0463E+01	1.0202E-05	1.0000E+01	5.7708E-07	7.7927E-06	1.2600E-06
9.3000E-01	4.0455E+01	1.0196E-05	1.0000E+01	5.5567E-07	7.7983E-06	1.2424E-06
9.4000E-01	4.0447E+01	1.0190E-05	1.0000E+01	5.3474E-07	7.8038E-06	1.2254E-06
9.5000E-01	4.0440E+01	1.0184E-05	1.0000E+01	5.1957E-07	7.8091E-06	1.2090E-06
9.6000E-01	4.0433E+01	1.0179E-05	1.0000E+01	4.9955E-07	7.8141E-06	1.1932E-06
9.7000E-01	4.0427E+01	1.0174E-05	1.0000E+01	4.8002E-07	7.8190E-06	1.1780E-06
9.8000E-01	4.0422E+01	1.0169E-05	1.0000E+01	4.6587E-07	7.8238E-06	1.1633E-06
9.9000E-01	4.0417E+01	1.0164E-05	1.0000E+01	4.4727E-07	7.8285E-06	1.1491E-06
1.0000E+00	4.0412E+01	1.0160E-05	1.0000E+01	4.2919E-07	7.8327E-06	1.1354E-06



ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

1.0000E+00	7.4254E+05	8.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.8330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+06	2.5800E+01	7.4400E+01	1.7140E+00
1.6280E-02	2.1589E-10	3.3866E-03	2.7800E+03	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.8500E-08	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E+01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	0.0000E+00						
0.0000E+00	1.9407E+00	1.0862E+02	2.5796E+02	6.7008E+02	0.0000E+00	2.5148E+00	7.1901E+02
1.0000E-01	2.1140E+00	1.1494E+02	2.5788E+02	6.9042E+02	0.0000E+00	2.4535E+00	7.2590E+02
2.0000E-02	2.2903E+00	1.2841E+02	2.5787E+02	7.0898E+02	0.0000E+00	2.2932E+00	7.3815E+02
3.0000E-02	2.0168E+00	1.1384E+02	2.5786E+02	7.2467E+02	0.0000E+00	2.1065E+00	7.4628E+02
4.0000E-02	1.3928E+00	8.6768E+01	2.5774E+02	7.3723E+02	0.0000E+00	1.9057E+00	7.5479E+02
5.0000E-02	6.4615E-01	4.2176E+01	2.5743E+02	7.4679E+02	0.0000E+00	1.7180E+00	7.6184E+02
6.0000E-02	5.8530E-02	1.0199E+00	2.5693E+02	7.5364E+02	0.0000E+00	1.5397E+00	7.6638E+02
7.0000E-02	6.3945E-01	2.8441E+01	2.5626E+02	7.5817E+02	0.0000E+00	1.3721E+00	7.6854E+02
8.0000E-02	1.0686E+00	5.6300E+01	2.5453E+02	7.6073E+02	0.0000E+00	1.2152E+00	7.6920E+02
9.0000E-02	1.3410E+00	7.4088E+01	2.5356E+02	7.6171E+02	0.0000E+00	1.0688E+00	7.6836E+02
1.0000E-01	1.4795E+00	8.2815E+01	2.5356E+02	7.6142E+02	0.0000E+00	9.3295E-01	7.6636E+02
1.0000E-01	1.5035E+00	8.4409E+01	2.5257E+02	7.6013E+02	0.0000E+00	8.0703E-01	7.6381E+02
1.2000E-01	1.4377E+00	8.1251E+01	2.5198E+02	7.5807E+02	0.0000E+00	6.9079E-01	7.6034E+02
1.3000E-01	1.3048E+00	7.3472E+01	2.5082E+02	7.5544E+02	0.0000E+00	5.8393E-01	7.5641E+02
1.4000E-01	1.1218E+00	6.5413E+01	2.4971E+02	7.5239E+02	0.0000E+00	4.8587E-01	7.5262E+02
1.5000E-01	9.0305E-01	5.2595E+01	2.4895E+02	7.4904E+02	0.0000E+00	3.9612E-01	7.4822E+02
1.6000E-01	6.6312E-01	3.8182E+01	2.4805E+02	7.4550E+02	0.0000E+00	3.1443E-01	7.4371E+02
1.7000E-01	4.1116E-01	2.6760E+01	2.4731E+02	7.4184E+02	0.0000E+00	2.4033E-01	7.3967E+02
1.8000E-01	1.5039E-01	1.1125E+01	2.4665E+02	7.3812E+02	0.0000E+00	1.7305E-01	7.3520E+02
1.9000E-01	1.0990E-01	4.6161E+00	2.4606E+02	7.3441E+02	0.0000E+00	1.1248E-01	7.3081E+02
2.0000E-01	3.6586E-01	2.0177E+01	2.4554E+02	7.3073E+02	0.0000E+00	5.8189E-02	7.2654E+02
2.1000E-01	6.1748E-01	3.1607E+01	2.4509E+02	7.2712E+02	0.0000E+00	9.5077E-03	7.2284E+02
2.2000E-01	8.6135E-01	4.6411E+01	2.4470E+02	7.2360E+02	0.0000E+00	-3.3836E-02	7.1887E+02
2.3000E-01	1.0950E+00	6.0828E+01	2.4439E+02	7.2019E+02	0.0000E+00	-7.2139E-02	7.1508E+02
2.4000E-01	1.3186E+00	7.0861E+01	2.4413E+02	7.1691E+02	0.0000E+00	-1.0588E-01	7.1184E+02
2.5000E-01	1.5329E+00	8.3907E+01	2.4393E+02	7.1376E+02	0.0000E+00	-1.3533E-01	7.0840E+02
2.6000E-01	1.7365E+00	9.6245E+01	2.4379E+02	7.1076E+02	0.0000E+00	-1.6123E-01	7.0516E+02
2.7000E-01	1.9272E+00	1.0770E+02	2.4370E+02	7.0787E+02	0.0000E+00	-1.8331E-01	7.0211E+02
2.8000E-01	2.1078E+00	1.1812E+02	2.4366E+02	7.0515E+02	0.0000E+00	-2.0230E-01	6.9854E+02
2.9000E-01	2.2779E+00	1.2648E+02	2.4375E+02	7.0258E+02	0.0000E+00	-2.1828E-01	6.9466E+02
3.0000E-01	2.4368E+00	1.3618E+02	2.4373E+02	7.0015E+02	0.0000E+00	-2.3151E-01	6.9036E+02
3.1000E-01	2.5859E+00	1.4300E+02	2.4382E+02	6.9787E+02	0.0000E+00	-2.4236E-01	6.8227E+02
3.2000E-01	2.7252E+00	1.5151E+02	2.4396E+02	6.9574E+02	0.0000E+00	-2.5102E-01	6.9011E+02
3.3000E-01	2.8542E+00	1.5939E+02	2.4413E+02	6.9375E+02	0.0000E+00	-2.5764E-01	6.8812E+02
3.4000E-01	3.0849E+00	1.6489E+02	2.4433E+02	6.9189E+02	0.0000E+00	-2.6246E-01	6.8647E+02
3.5000E-01	3.1870E+00	1.7795E+02	2.4456E+02	6.9017E+02	0.0000E+00	-2.6575E-01	6.8478E+02
3.6000E-01	3.2803E+00	1.8364E+02	2.4511E+02	6.8711E+02	0.0000E+00	-2.6755E-01	6.8324E+02
3.7000E-01	3.3683E+00	1.8757E+02	2.4542E+02	6.8577E+02	0.0000E+00	-2.6806E-01	6.8184E+02
3.8000E-01	3.4446E+00	1.9237E+02	2.4575E+02	6.8454E+02	0.0000E+00	-2.6750E-01	6.8071E+02
3.9000E-01	3.5152E+00	1.9669E+02	2.4611E+02	6.8342E+02	0.0000E+00	-2.6597E-01	6.7957E+02
4.0000E-01	3.5791E+00	1.9963E+02	2.4648E+02	6.8240E+02	0.0000E+00	-2.6344E-01	6.7855E+02
4.1000E-01	3.6365E+00	2.0317E+02	2.4686E+02	6.8149E+02	0.0000E+00	-2.6021E-01	6.7773E+02
4.2000E-01	3.6875E+00	2.0830E+02	2.4726E+02	6.8068E+02	0.0000E+00	-2.5637E-01	6.7694E+02
4.3000E-01	3.7325E+00	2.0839E+02	2.4767E+02	6.7996E+02	0.0000E+00	-2.5187E-01	6.7624E+02
4.4000E-01	3.7715E+00	2.1085E+02	2.4809E+02	6.7932E+02	0.0000E+00	-2.4691E-01	6.7519E+02
4.5000E-01	3.8062E+00	2.1296E+02	2.4852E+02	6.7877E+02	0.0000E+00	-2.4157E-01	6.7519E+02
4.6000E-01					0.0000E+00	-2.3587E-01	6.7477E+02

4.7000E-01	3.8353E+00	2.1474E+02	2.4896E+02	6.7830E+02	0.0000E+00	-2.2989E-01	6.7443E+02
4.8000E-01	3.8597E+00	2.1587E+02	2.4940E+02	6.7790E+02	0.0000E+00	-2.1730E-01	6.7419E+02
4.9000E-01	3.8796E+00	2.1712E+02	2.4985E+02	6.7757E+02	0.0000E+00	-2.1374E-01	6.7398E+02
5.0000E-01	3.8953E+00	2.1861E+02	2.5030E+02	6.7731E+02	0.0000E+00	-2.1084E-01	6.7386E+02
5.1000E-01	3.9071E+00	2.1919E+02	2.5076E+02	6.7711E+02	0.0000E+00	-2.0425E-01	6.7380E+02
5.2000E-01	3.9152E+00	2.1919E+02	2.5122E+02	6.7696E+02	0.0000E+00	-1.9765E-01	6.7379E+02
5.3000E-01	3.9198E+00	2.1950E+02	2.5167E+02	6.7686E+02	0.0000E+00	-1.9096E-01	6.7383E+02
5.4000E-01	3.9213E+00	2.1959E+02	2.5213E+02	6.7684E+02	0.0000E+00	-1.8434E-01	6.7393E+02
5.5000E-01	3.9147E+00	2.1930E+02	2.5259E+02	6.7685E+02	0.0000E+00	-1.7733E-01	6.7404E+02
5.6000E-01	3.9054E+00	2.1889E+02	2.5304E+02	6.7690E+02	0.0000E+00	-1.7119E-01	6.7422E+02
5.7000E-01	3.8917E+00	2.1848E+02	2.5350E+02	6.7695E+02	0.0000E+00	-1.6471E-01	6.7445E+02
5.8000E-01	3.8876E+00	2.1781E+02	2.5395E+02	6.7713E+02	0.0000E+00	-1.5833E-01	6.7467E+02
5.9000E-01	3.8870E+00	2.1700E+02	2.5439E+02	6.7729E+02	0.0000E+00	-1.5205E-01	6.7496E+02
6.0000E-01	3.8878E+00	2.1631E+02	2.5483E+02	6.7749E+02	0.0000E+00	-1.4589E-01	6.7528E+02
6.1000E-01	3.8844E+00	2.1530E+02	2.5527E+02	6.7772E+02	0.0000E+00	-1.3987E-01	6.7558E+02
6.2000E-01	3.8728E+00	2.1419E+02	2.5570E+02	6.7798E+02	0.0000E+00	-1.3396E-01	6.7595E+02
6.3000E-01	3.8628E+00	2.1297E+02	2.5613E+02	6.7826E+02	0.0000E+00	-1.2821E-01	6.7634E+02
6.4000E-01	3.8544E+00	2.1201E+02	2.5655E+02	6.7856E+02	0.0000E+00	-1.2262E-01	6.7675E+02
6.5000E-01	3.8488E+00	2.1066E+02	2.5696E+02	6.7886E+02	0.0000E+00	-1.1717E-01	6.7713E+02
6.6000E-01	3.8454E+00	2.0924E+02	2.5736E+02	6.7922E+02	0.0000E+00	-1.1187E-01	6.7757E+02
6.7000E-01	3.8436E+00	2.0814E+02	2.5776E+02	6.7958E+02	0.0000E+00	-1.0675E-01	6.7803E+02
6.8000E-01	3.8430E+00	2.0663E+02	2.5814E+02	6.7995E+02	0.0000E+00	-9.6964E-02	6.7848E+02
6.9000E-01	3.8466E+00	2.0507E+02	2.5852E+02	6.8034E+02	0.0000E+00	-9.2321E-02	6.7892E+02
7.0000E-01	3.8537E+00	2.0387E+02	2.5892E+02	6.8073E+02	0.0000E+00	-8.7849E-02	6.7841E+02
7.1000E-01	3.8666E+00	2.0225E+02	2.5929E+02	6.8114E+02	0.0000E+00	-8.3506E-02	6.8034E+02
7.2000E-01	3.8793E+00	2.0060E+02	2.5965E+02	6.8155E+02	0.0000E+00	-7.9336E-02	6.8085E+02
7.3000E-01	3.8917E+00	1.9893E+02	2.6000E+02	6.8197E+02	0.0000E+00	-7.5336E-02	6.8135E+02
7.4000E-01	3.9037E+00	1.9767E+02	2.6034E+02	6.8240E+02	0.0000E+00	-7.1470E-02	6.8180E+02
7.5000E-01	3.9157E+00	1.9675E+02	2.6068E+02	6.8283E+02	0.0000E+00	-6.7755E-02	6.8230E+02
7.6000E-01	3.9276E+00	1.9597E+02	2.6101E+02	6.8326E+02	0.0000E+00	-6.4202E-02	6.8281E+02
7.7000E-01	3.9395E+00	1.9299E+02	2.6133E+02	6.8369E+02	0.0000E+00	-6.0793E-02	6.8326E+02
7.8000E-01	3.9525E+00	1.9129E+02	2.6164E+02	6.8413E+02	0.0000E+00	-5.7507E-02	6.8376E+02
7.9000E-01	3.9631E+00	1.8959E+02	2.6194E+02	6.8458E+02	0.0000E+00	-5.4373E-02	6.8426E+02
8.0000E-01	3.9733E+00	1.8790E+02	2.6224E+02	6.8500E+02	0.0000E+00	-5.1387E-02	6.8475E+02
8.1000E-01	3.9833E+00	1.8790E+02	2.6253E+02	6.8543E+02	0.0000E+00	-4.8503E-02	6.8518E+02
8.2000E-01	3.9937E+00	1.8663E+02	2.6280E+02	6.8586E+02	0.0000E+00	-4.5756E-02	6.8567E+02
8.3000E-01	3.9997E+00	1.8496E+02	2.6307E+02	6.8628E+02	0.0000E+00	-4.3145E-02	6.8614E+02
8.4000E-01	3.2725E+00	1.8331E+02	2.6334E+02	6.8671E+02	0.0000E+00	-4.0643E-02	6.8656E+02
8.5000E-01	3.2454E+00	1.8208E+02	2.6359E+02	6.8713E+02	0.0000E+00	-3.8249E-02	6.8703E+02
8.6000E-01	3.2186E+00	1.8046E+02	2.6384E+02	6.8754E+02	0.0000E+00	-3.5981E-02	6.8748E+02
8.7000E-01	3.1922E+00	1.7886E+02	2.6408E+02	6.8795E+02	0.0000E+00	-3.3824E-02	6.8788E+02
8.8000E-01	3.1663E+00	1.7768E+02	2.6431E+02	6.8835E+02	0.0000E+00	-3.1751E-02	6.8822E+02
8.9000E-01	3.1406E+00	1.7612E+02	2.6454E+02	6.8875E+02	0.0000E+00	-2.9709E-02	6.8876E+02
9.0000E-01	3.1154E+00	1.7460E+02	2.6475E+02	6.8914E+02	0.0000E+00	-2.7937E-02	6.8918E+02
9.1000E-01	3.0908E+00	1.7310E+02	2.6496E+02	6.8952E+02	0.0000E+00	-2.6158E-02	6.8955E+02
9.2000E-01	3.0684E+00	1.7199E+02	2.6517E+02	6.8990E+02	0.0000E+00	-2.4472E-02	6.8996E+02
9.3000E-01	3.0455E+00	1.7055E+02	2.6536E+02	6.9027E+02	0.0000E+00	-2.2884E-02	6.9035E+02
9.4000E-01	3.0193E+00	1.6814E+02	2.6555E+02	6.9063E+02	0.0000E+00	-2.1373E-02	6.9070E+02
9.5000E-01	2.9965E+00	1.6610E+02	2.6573E+02	6.9098E+02	0.0000E+00	-1.9932E-02	6.9108E+02
9.6000E-01	2.9740E+00	1.6474E+02	2.6591E+02	6.9133E+02	0.0000E+00	-1.8577E-02	6.9145E+02
9.7000E-01	2.9522E+00	1.6442E+02	2.6608E+02	6.9167E+02	0.0000E+00	-1.7303E-02	6.9177E+02
9.8000E-01	2.9311E+00	1.6445E+02	2.6624E+02	6.9200E+02	0.0000E+00	-1.6078E-02	6.9212E+02
9.9000E-01	2.9102E+00	1.6318E+02	2.6640E+02	6.9232E+02	0.0000E+00	-1.4930E-02	6.9246E+02
1.0000E+00	2.8899E+00	1.6195E+02	2.6655E+02	6.9264E+02	0.0000E+00	-1.3869E-02	6.9282E+02

Appendix #36.  
ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.000E+00	5.5500E+00	-2.7441E-07	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
0.000E+00	5.5500E+00	4.7163E-06	1.8940E+03	1.0490E+08	2.5600E+01	7.4400E+01	1.7140E+00
1.000E-02	5.5500E+00	4.5729E-06	2.1829E-02	2.7471E+00	3.8693E-01	4.6817E+00	5.1410E-08
1.500E-02	5.5500E+00	4.3081E-06	2.7134E-02	2.0749E+00	3.9891E-01	4.0694E+00	3.0543E-05
2.000E-02	5.5500E+00	3.9749E-06	2.9595E-02	1.5558E+00	4.0793E-01	3.5955E+00	1.5639E-05
3.000E-02	5.5500E+00	3.6236E-06	3.0131E-02	1.1610E+00	4.1467E-01	3.2344E+00	6.0661E-06
4.000E-02	5.5500E+00	3.2770E-06	2.9476E-02	6.6769E-01	4.1971E-01	2.9662E+00	2.9547E-07
5.000E-02	5.5500E+00	2.9476E-06	2.7968E-02	4.5306E-01	4.2638E-01	2.7705E+00	-3.0026E-06
6.000E-02	5.5500E+00	2.6403E-06	2.6092E-02	3.8195E-01	4.3252E-01	2.6283E+00	-4.7650E-06
7.000E-02	5.5500E+00	2.3562E-06	2.4218E-02	3.1945E-01	4.3870E-01	2.5245E+00	-5.6000E-06
8.000E-02	5.5500E+00	2.0947E-06	2.1888E-02	2.6645E-01	4.4515E-01	2.4685E+00	-5.8882E-06
9.000E-02	5.5500E+00	1.8547E-06	1.9786E-02	2.1801E-01	4.5181E-01	2.3685E+00	-5.8568E-06
1.000E-01	5.5500E+00	1.6345E-06	1.7855E-02	1.8013E-01	4.5845E-01	2.3428E+00	-5.6453E-06
1.500E-01	5.5500E+00	1.4327E-06	1.5652E-02	1.3891E-01	4.6533E-01	2.3056E+00	-5.3390E-06
2.000E-01	5.5500E+00	1.2476E-06	1.4060E-02	1.0476E-01	4.7249E-01	2.2745E+00	-4.9893E-06
3.000E-01	5.5500E+00	1.0795E-06	1.2382E-02	5.0600E-02	4.8000E-01	2.2242E+00	-4.6254E-06
4.000E-01	5.5500E+00	9.2430E-07	1.0848E-02	2.8565E-02	4.8470E-01	2.2031E+00	-4.2633E-06
5.000E-01	5.5500E+00	7.7960E-07	9.4215E-03	1.6807E-03	4.3499E-01	2.1838E+00	-3.9158E-06
6.000E-01	5.5500E+00	6.4871E-07	8.1076E-03	-6.8190E-03	4.3499E-01	2.1661E+00	-3.5891E-06
7.000E-01	5.5500E+00	5.2862E-07	6.9866E-03	-2.4844E-02	4.3491E-01	2.1497E+00	-3.2862E-06
8.000E-01	5.5500E+00	4.1842E-07	5.7871E-03	-3.9425E-02	4.3475E-01	2.1343E+00	-3.0082E-06
9.000E-01	5.5500E+00	3.1727E-07	4.7658E-03	-5.2745E-02	4.3452E-01	2.1196E+00	-2.7552E-06
1.000E+00	5.5500E+00	2.2439E-07	3.8276E-03	-6.4951E-02	4.3422E-01	2.1062E+00	-2.5221E-06
1.500E+00	5.5500E+00	1.3908E-07	2.9656E-03	-7.6159E-02	4.3387E-01	2.0932E+00	-2.3098E-06
2.000E+00	5.5500E+00	6.0703E-08	2.1742E-03	-8.6468E-02	4.3300E-01	2.0808E+00	-2.1195E-06
3.000E+00	5.5500E+00	-1.1328E-08	1.4470E-03	-9.5957E-02	4.3250E-01	2.0691E+00	-1.9497E-06
4.000E+00	5.5500E+00	-1.7540E-08	7.7807E-04	-1.0470E-01	4.3200E-01	2.0576E+00	-1.7989E-06
5.000E+00	5.5500E+00	-1.3842E-07	1.6485E-04	-1.1275E-01	4.3196E-01	2.0470E+00	-1.6653E-06
6.000E+00	5.5500E+00	-9.439E-07	-3.9952E-04	-1.2017E-01	4.3188E-01	2.0367E+00	-1.5473E-06
7.000E+00	5.5500E+00	-2.4586E-07	-9.1833E-04	-1.2701E-01	4.3176E-01	2.0268E+00	-1.4393E-06
8.000E+00	5.5500E+00	-2.9319E-07	-1.3953E-03	-1.3329E-01	4.3165E-01	2.0172E+00	-1.3438E-06
9.000E+00	5.5500E+00	-3.3670E-07	-1.8338E-03	-1.3907E-01	4.3152E-01	2.0081E+00	-1.2601E-06
1.000E+01	5.5500E+00	-3.7667E-07	-2.3368E-03	-1.4437E-01	4.2943E-01	2.0081E+00	-1.1867E-06
1.500E+01	5.5500E+00	-4.1337E-07	-2.8032E-03	-1.4921E-01	4.2822E-01	1.9992E+00	-1.1222E-06
2.000E+01	5.5500E+00	-4.4705E-07	-3.2455E-03	-1.5362E-01	4.2786E-01	1.9925E+00	-1.0655E-06
3.000E+01	5.5500E+00	-4.7790E-07	-3.6599E-03	-1.5768E-01	4.2735E-01	1.9825E+00	-1.0151E-06
4.000E+01	5.5500E+00	-5.0614E-07	-4.0466E-03	-1.6127E-01	4.2645E-01	1.9746E+00	-9.6835E-07
5.000E+01	5.5500E+00	-5.3194E-07	-4.4092E-03	-1.6453E-01	4.2565E-01	1.9670E+00	-9.2694E-07
6.000E+01	5.5500E+00	-5.5446E-07	-4.7486E-03	-1.6745E-01	4.2483E-01	1.9596E+00	-8.9001E-07
7.000E+01	5.5500E+00	-5.7385E-07	-5.0633E-03	-1.7004E-01	4.2400E-01	1.9526E+00	-8.5682E-07
8.000E+01	5.5500E+00	-5.9024E-07	-5.3546E-03	-1.7231E-01	4.2316E-01	1.9456E+00	-8.2670E-07
9.000E+01	5.5500E+00	-6.0375E-07	-5.6224E-03	-1.7429E-01	4.2230E-01	1.9392E+00	-7.9910E-07
1.000E+02	5.5500E+00	-6.1375E-07	-5.8720E-03	-1.7429E-01	4.2144E-01	1.9329E+00	-7.7314E-07
1.500E+02	5.5500E+00	-6.2950E-07	-6.1174E-03	-1.7598E-01	4.2056E-01	1.9268E+00	-7.4841E-07
2.000E+02	5.5500E+00	-6.4360E-07	-6.3669E-03	-1.7740E-01	4.1968E-01	1.9210E+00	-7.2530E-07
3.000E+02	5.5500E+00	-6.5614E-07	-5.1016E-03	-1.7856E-01	4.1879E-01	1.9154E+00	-7.0350E-07

2.2500E-01	5.5500E+00	-6.0721E-07	-5.2224E-03	-1.7948E-01	4.1789E-01	1.9100E+00	-6.8273E-07
2.3000E-01	5.5500E+00	-6.7690E-07	-5.3300E-03	-1.8016E-01	4.1699E-01	1.9048E+00	-6.6278E-07
2.3500E-01	5.5500E+00	-6.8529E-07	-5.4252E-03	-1.8063E-01	4.1609E-01	1.8998E+00	-6.4348E-07
2.4000E-01	5.5500E+00	-6.9245E-07	-5.5089E-03	-1.8098E-01	4.1519E-01	1.8951E+00	-6.2456E-07
2.4500E-01	5.5500E+00	-6.9845E-07	-5.5816E-03	-1.8094E-01	4.1428E-01	1.8905E+00	-6.0612E-07
2.5000E-01	5.5500E+00	-7.0336E-07	-5.6440E-03	-1.8081E-01	4.1338E-01	1.8861E+00	-5.8816E-07
2.5500E-01	5.5500E+00	-7.0712E-07	-5.6967E-03	-1.8050E-01	4.1248E-01	1.8819E+00	-5.7059E-07
2.6000E-01	5.5500E+00	-7.1015E-07	-5.7402E-03	-1.8003E-01	4.1157E-01	1.8778E+00	-5.5336E-07
2.6500E-01	5.5500E+00	-7.1248E-07	-5.7751E-03	-1.7940E-01	4.1068E-01	1.8740E+00	-5.3643E-07
2.7000E-01	5.5500E+00	-7.1362E-07	-5.8019E-03	-1.7863E-01	4.0978E-01	1.8703E+00	-5.1975E-07
2.7500E-01	5.5500E+00	-7.1395E-07	-5.8210E-03	-1.7772E-01	4.0889E-01	1.8667E+00	-5.0348E-07
2.8000E-01	5.5500E+00	-7.1319E-07	-5.8329E-03	-1.7668E-01	4.0800E-01	1.8633E+00	-4.8755E-07
2.8500E-01	5.5500E+00	-7.1195E-07	-5.8381E-03	-1.7553E-01	4.0712E-01	1.8601E+00	-4.7190E-07
2.9000E-01	5.5500E+00	-7.1025E-07	-5.8369E-03	-1.7426E-01	4.0625E-01	1.8570E+00	-4.5652E-07
2.9500E-01	5.5500E+00	-7.0782E-07	-5.8297E-03	-1.7289E-01	4.0538E-01	1.8540E+00	-4.4141E-07
3.0000E-01	5.5500E+00	-7.0481E-07	-5.8170E-03	-1.7142E-01	4.0452E-01	1.8512E+00	-4.2656E-07
3.0500E-01	5.5500E+00	-6.9719E-07	-5.7990E-03	-1.6987E-01	4.0367E-01	1.8485E+00	-4.1202E-07
3.1000E-01	5.5500E+00	-6.9125E-07	-5.7761E-03	-1.6824E-01	4.0282E-01	1.8459E+00	-3.9807E-07
3.1500E-01	5.5500E+00	-6.8787E-07	-5.7486E-03	-1.6653E-01	4.0198E-01	1.8434E+00	-3.8441E-07
3.2000E-01	5.5500E+00	-6.8728E-07	-5.7169E-03	-1.6475E-01	4.0116E-01	1.8410E+00	-3.7105E-07
3.2500E-01	5.5500E+00	-6.8628E-07	-5.6811E-03	-1.6291E-01	4.0034E-01	1.8388E+00	-3.5796E-07
3.3000E-01	5.5500E+00	-6.8417E-07	-5.6417E-03	-1.6102E-01	3.9953E-01	1.8368E+00	-3.4516E-07
3.3500E-01	5.5500E+00	-6.8196E-07	-5.5969E-03	-1.5907E-01	3.9873E-01	1.8348E+00	-3.3263E-07
3.4000E-01	5.5500E+00	-6.7969E-07	-5.5558E-03	-1.5705E-01	3.9794E-01	1.8328E+00	-3.2055E-07
3.4500E-01	5.5500E+00	-6.7725E-07	-5.5095E-03	-1.5505E-01	3.9716E-01	1.8307E+00	-3.0902E-07
3.5000E-01	5.5500E+00	-6.7462E-07	-5.4532E-03	-1.5298E-01	3.9639E-01	1.8290E+00	-2.9777E-07
3.5500E-01	5.5500E+00	-6.7189E-07	-5.3981E-03	-1.5088E-01	3.9563E-01	1.8273E+00	-2.8678E-07
3.6000E-01	5.5500E+00	-6.6907E-07	-5.3447E-03	-1.4875E-01	3.9488E-01	1.8256E+00	-2.7607E-07
3.6500E-01	5.5500E+00	-6.6615E-07	-5.2832E-03	-1.4660E-01	3.9414E-01	1.8241E+00	-2.6561E-07
3.7000E-01	5.5500E+00	-6.6315E-07	-5.2228E-03	-1.4443E-01	3.9341E-01	1.8226E+00	-2.5541E-07
3.7500E-01	5.5500E+00	-6.6007E-07	-5.1607E-03	-1.4224E-01	3.9268E-01	1.8212E+00	-2.4575E-07
3.8000E-01	5.5500E+00	-6.5692E-07	-5.0971E-03	-1.4004E-01	3.9199E-01	1.8199E+00	-2.3650E-07
3.8500E-01	5.5500E+00	-6.5361E-07	-5.0320E-03	-1.3782E-01	3.9129E-01	1.8186E+00	-2.2748E-07
3.9000E-01	5.5500E+00	-6.5025E-07	-4.9657E-03	-1.3560E-01	3.9051E-01	1.8175E+00	-2.1868E-07
3.9500E-01	5.5500E+00	-6.4684E-07	-4.8984E-03	-1.3338E-01	3.8974E-01	1.8163E+00	-2.1012E-07
4.0000E-01	5.5500E+00	-6.4337E-07	-4.8300E-03	-1.3115E-01	3.8898E-01	1.8152E+00	-2.0172E-07
4.0500E-01	5.5500E+00	-6.3983E-07	-4.7609E-03	-1.2892E-01	3.8824E-01	1.8142E+00	-1.9363E-07
4.1000E-01	5.5500E+00	-6.3628E-07	-4.6910E-03	-1.2689E-01	3.8753E-01	1.8132E+00	-1.8607E-07
4.1500E-01	5.5500E+00	-6.3267E-07	-4.6205E-03	-1.2447E-01	3.8683E-01	1.8123E+00	-1.7876E-07
4.2000E-01	5.5500E+00	-6.2901E-07	-4.5496E-03	-1.2225E-01	3.8616E-01	1.8113E+00	-1.7164E-07
4.2500E-01	5.5500E+00	-6.2530E-07	-4.4782E-03	-1.2004E-01	3.8544E-01	1.8106E+00	-1.6469E-07
4.3000E-01	5.5500E+00	-6.2154E-07	-4.4065E-03	-1.1784E-01	3.8474E-01	1.8099E+00	-1.5791E-07
4.3500E-01	5.5500E+00	-6.1773E-07	-4.3347E-03	-1.1565E-01	3.8406E-01	1.8091E+00	-1.5130E-07
4.4000E-01	5.5500E+00	-6.1387E-07	-4.2627E-03	-1.1348E-01	3.8339E-01	1.8085E+00	-1.4491E-07
4.4500E-01	5.5500E+00	-6.0997E-07	-4.1906E-03	-1.1131E-01	3.8274E-01	1.8078E+00	-1.3902E-07
4.5000E-01	5.5500E+00	-6.0602E-07	-4.1166E-03	-1.0911E-01	3.8210E-01	1.8072E+00	-1.3328E-07
4.5500E-01	5.5500E+00	-6.0203E-07	-4.0427E-03	-1.0703E-01	3.8147E-01	1.8066E+00	-1.2768E-07
4.6000E-01	5.5500E+00	-5.9799E-07	-3.9750E-03	-1.0492E-01	3.8082E-01	1.8061E+00	-1.2222E-07
4.6500E-01	5.5500E+00	-5.9392E-07	-3.9035E-03	-1.0289E-01	3.8020E-01	1.8056E+00	-1.1688E-07
4.7000E-01	5.5500E+00	-5.8982E-07	-3.8322E-03	-1.0075E-01	3.8117E-01	1.8051E+00	-1.1167E-07
4.7500E-01	5.5500E+00	-5.8569E-07	-3.7613E-03	-9.8693E-02	3.8068E-01	1.8047E+00	-1.0673E-07
4.8000E-01	5.5500E+00	-5.8153E-07	-3.6908E-03	-9.6658E-02	3.8019E-01	1.8043E+00	-1.0214E-07
4.8500E-01	5.5500E+00	-5.7734E-07	-3.6207E-03	-9.4645E-02	3.7971E-01	1.8039E+00	-9.7642E-08
4.9000E-01	5.5500E+00	-5.7311E-07	-3.5510E-03	-9.2654E-02	3.7924E-01	1.8036E+00	-9.3253E-08
4.9500E-01	5.5500E+00	-5.6884E-07	-3.4819E-03	-9.0685E-02	3.7878E-01	1.8032E+00	-8.8967E-08
5.0000E-01	5.5500E+00	-5.6463E-07	-3.4133E-03	-8.8741E-02	3.7833E-01	1.8029E+00	-8.4781E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	B VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
1. 0.000E+00	7. 4254E+05	9. 0500E+01	6. 0500E+01	1. 0000E+00	0. 0000E+00	5. 0000E+00	3. 1000E+02
1. 6330E-05	5. 9000E-04	0. 0000E+00	1. 6940E+03	1. 0490E+06	2. 5600E+01	7. 4400E+01	1. 7140E+00
1. 6280E+02	2. 1589E-10	3. 3586E+03	2. 7800E+01	1. 7760E-02	8. 3283E-09	8. 3283E-09	1. 8500E-06
7. 4000E+00	2. 4000E+00	3. 6500E-06	2. 0000E+01	5. 5611E-01	1. 7000E+08	8. 2600E+01	5. 6000E+01
4. 3280E-01	4. 7700E-01	2. 3400E-01	6. 4300E-02	3. 2250E-07	5. 2080E-08	1. 2215E+01	7. 2259E+00
0. 0000E+00	8. 0000E+01						
1. 0000E+00	9. 9928E-10	6. 2749E-07	2. 5701E-02	4. 4057E+00	7. 1724E+02	3. 4576E+01	4. 1776E+03
1. 0000E-03	1. 1811E-09	8. 3133E-07	2. 6524E-02	4. 8771E+00	7. 9843E+02	1. 0357E+02	4. 7047E+03
1. 0000E-02	1. 3007E-09	7. 4311E-07	2. 7224E-02	4. 8078E+00	7. 8908E+02	1. 0555E+02	5. 7965E+03
1. 0000E-02	1. 3872E-09	6. 6730E-07	2. 7401E-02	4. 8941E+00	7. 8860E+02	8. 4068E+01	6. 5013E+03
2. 0000E-02	1. 3980E-09	6. 3021E-07	2. 7283E-02	4. 8123E+00	7. 5277E+02	6. 6930E+01	6. 8299E+03
3. 0000E-02	1. 4066E-09	6. 1957E-07	2. 7072E-02	4. 5663E+00	7. 4393E+02	5. 6274E+01	6. 9154E+03
3. 0000E-02	1. 4022E-09	6. 2151E-07	2. 6872E-02	4. 5442E+00	7. 3989E+02	5. 1361E+01	6. 8706E+03
3. 5000E-02	1. 3904E-09	6. 2751E-07	2. 6718E-02	4. 5354E+00	7. 3891E+02	4. 9188E+01	6. 7650E+03
4. 0000E-02	1. 3750E-09	6. 3351E-07	2. 6613E-02	4. 5328E+00	7. 3804E+02	4. 7181E+01	6. 6369E+03
4. 5000E-02	1. 3596E-09	6. 3795E-07	2. 6546E-02	4. 5323E+00	7. 3785E+02	4. 5548E+01	6. 5056E+03
5. 0000E-02	1. 3406E-09	6. 4072E-07	2. 6505E-02	4. 5320E+00	7. 3785E+02	4. 5118E+01	6. 3793E+03
5. 5000E-02	1. 3236E-09	6. 4209E-07	2. 6479E-02	4. 5311E+00	7. 3770E+02	4. 4755E+01	6. 2615E+03
6. 0000E-02	1. 3073E-09	6. 4238E-07	2. 6460E-02	4. 5292E+00	7. 3739E+02	4. 4418E+01	6. 1533E+03
6. 5000E-02	1. 2921E-09	6. 4189E-07	2. 6445E-02	4. 5282E+00	7. 3687E+02	4. 4181E+01	6. 0548E+03
7. 0000E-02	1. 2795E-09	6. 4094E-07	2. 6424E-02	4. 5220E+00	7. 3653E+02	4. 4476E+01	5. 9652E+03
7. 5000E-02	1. 2648E-09	6. 3978E-07	2. 6402E-02	4. 5171E+00	7. 3476E+02	4. 4238E+01	5. 8835E+03
8. 0000E-02	1. 2527E-09	6. 3847E-07	2. 6376E-02	4. 5115E+00	7. 3476E+02	4. 3989E+01	5. 8093E+03
8. 5000E-02	1. 2415E-09	6. 3709E-07	2. 6347E-02	4. 5053E+00	7. 3368E+02	4. 3766E+01	5. 7419E+03
9. 0000E-02	1. 2325E-09	6. 3570E-07	2. 6314E-02	4. 4996E+00	7. 3253E+02	4. 3481E+01	5. 6807E+03
1. 0000E-01	1. 2256E-09	6. 3433E-07	2. 6279E-02	4. 4916E+00	7. 3132E+02	4. 3231E+01	5. 6251E+03
1. 0500E-01	1. 2136E-09	6. 3301E-07	2. 6241E-02	4. 4845E+00	7. 3009E+02	4. 2990E+01	5. 5744E+03
1. 1000E-01	1. 1998E-09	6. 3180E-07	2. 6202E-02	4. 4775E+00	7. 2947E+02	4. 3372E+01	5. 5277E+03
1. 1500E-01	1. 1923E-09	6. 3094E-07	2. 6163E-02	4. 4708E+00	7. 2825E+02	4. 3140E+01	5. 4847E+03
1. 2000E-01	1. 1863E-09	6. 3006E-07	2. 6123E-02	4. 4641E+00	7. 2706E+02	4. 2915E+01	5. 4452E+03
1. 2500E-01	1. 1808E-09	6. 2974E-07	2. 6084E-02	4. 4577E+00	7. 2591E+02	4. 2700E+01	5. 4080E+03
1. 3000E-01	1. 1757E-09	6. 2849E-07	2. 6046E-02	4. 4515E+00	7. 2482E+02	4. 2497E+01	5. 3755E+03
1. 3500E-01	1. 1710E-09	6. 2771E-07	2. 6009E-02	4. 4455E+00	7. 2379E+02	4. 2368E+01	5. 3445E+03
1. 4000E-01	1. 1666E-09	6. 2680E-07	2. 5974E-02	4. 4399E+00	7. 2282E+02	4. 2205E+01	5. 2884E+03
1. 4500E-01	1. 1625E-09	6. 2644E-07	2. 5940E-02	4. 4349E+00	7. 2265E+02	4. 2398E+01	5. 2628E+03
1. 5000E-01	1. 1588E-09	6. 2613E-07	2. 5909E-02	4. 4302E+00	7. 2160E+02	4. 2025E+01	5. 2160E+03
1. 5500E-01	1. 1550E-09	6. 2584E-07	2. 5879E-02	4. 4259E+00	7. 2071E+02	4. 1856E+01	5. 1945E+03
1. 6000E-01	1. 1516E-09	6. 2559E-07	2. 5851E-02	4. 4219E+00	7. 1992E+02	4. 1698E+01	5. 1741E+03
1. 6500E-01	1. 1484E-09	6. 2538E-07	2. 5826E-02	4. 4181E+00	7. 1933E+02	4. 1551E+01	5. 1545E+03
1. 7000E-01	1. 1453E-09	6. 2520E-07	2. 5791E-02	4. 4148E+00	7. 1874E+02	4. 1417E+01	5. 1417E+03
1. 7500E-01	1. 1424E-09	6. 2512E-07	2. 5761E-02	4. 4117E+00	7. 1847E+02	4. 1297E+01	5. 1355E+03
1. 8000E-01	1. 1398E-09	6. 2505E-07	2. 5735E-02	4. 4091E+00	7. 1797E+02	4. 1361E+01	5. 1173E+03
1. 8500E-01	1. 1369E-09	6. 2499E-07	2. 5712E-02	4. 4067E+00	7. 1753E+02	4. 1221E+01	5. 0998E+03
1. 9000E-01	1. 1344E-09	6. 2494E-07	2. 5713E-02	4. 4045E+00	7. 1714E+02	4. 1091E+01	5. 0830E+03
2. 0000E-01	1. 3195E-09	6. 2490E-07	2. 5700E-02	4. 4009E+00	7. 1679E+02	4. 0969E+01	5. 0667E+03
2. 0500E-01	1. 2995E-09	6. 2488E-07	2. 5689E-02	4. 3994E+00	7. 1649E+02	4. 0855E+01	5. 0509E+03
2. 1000E-01	1. 2749E-09	6. 2488E-07	2. 5679E-02	4. 3982E+00	7. 1623E+02	4. 0854E+01	5. 0356E+03
2. 1500E-01	1. 2492E-09	6. 2491E-07	2. 5670E-02	4. 3971E+00	7. 1591E+02	4. 0734E+01	5. 0207E+03
2. 2000E-01	1. 2227E-09	6. 2493E-07	2. 5663E-02	4. 3962E+00	7. 1574E+02	4. 0623E+01	5. 0052E+03
2. 2500E-01	1. 2068E-09	6. 2496E-07	2. 5656E-02	4. 3954E+00	7. 1559E+02	4. 0518E+01	4. 9784E+03
2. 3000E-01	1. 1886E-09	6. 2500E-07	2. 5650E-02	4. 3947E+00	7. 1548E+02	4. 0429E+01	4. 9784E+03
2. 3500E-01	1. 1166E-09	6. 2504E-07	2. 5646E-02	4. 3942E+00	7. 1538E+02	4. 0327E+01	4. 9651E+03

2.3500E-01 1.1147E-09 6.2508E-07 2.5642E-02 4.3938E+00 7.1531E+02 4.0740E+01 4.9522E+03  
2.4000E-01 1.1128E-09 6.2513E-07 2.5639E-02 4.3935E+00 7.1528E+02 4.0183E+01 4.9396E+03  
2.4500E-01 1.1102E-09 6.2519E-07 2.5636E-02 4.3932E+00 7.1525E+02 4.0095E+01 4.9274E+03  
2.5000E-01 1.1092E-09 6.2524E-07 2.5634E-02 4.3931E+00 7.1523E+02 4.0075E+01 4.9155E+03  
2.5500E-01 1.1075E-09 6.2531E-07 2.5632E-02 4.3930E+00 7.1518E+02 3.9938E+01 4.9039E+03  
2.6000E-01 1.1059E-09 6.2537E-07 2.5632E-02 4.3930E+00 7.1518E+02 3.9868E+01 4.8927E+03  
2.6500E-01 1.1043E-09 6.2544E-07 2.5631E-02 4.3930E+00 7.1518E+02 3.9795E+01 4.8818E+03  
2.7000E-01 1.1027E-09 6.2551E-07 2.5631E-02 4.3933E+00 7.1520E+02 3.9730E+01 4.8712E+03  
2.7500E-01 1.1012E-09 6.2557E-07 2.5631E-02 4.3933E+00 7.1521E+02 3.9653E+01 4.8610E+03  
2.8000E-01 1.0997E-09 6.2564E-07 2.5632E-02 4.3935E+00 7.1524E+02 3.9590E+01 4.8511E+03  
2.8500E-01 1.0983E-09 6.2570E-07 2.5632E-02 4.3935E+00 7.1528E+02 3.9531E+01 4.8414E+03  
2.9000E-01 1.0969E-09 6.2577E-07 2.5633E-02 4.3935E+00 7.1532E+02 3.9475E+01 4.8321E+03  
2.9500E-01 1.0956E-09 6.2584E-07 2.5635E-02 4.3942E+00 7.1537E+02 3.9421E+01 4.8231E+03  
3.0000E-01 1.0943E-09 6.2592E-07 2.5638E-02 4.3948E+00 7.1543E+02 3.9371E+01 4.8143E+03  
3.0500E-01 1.0931E-09 6.2599E-07 2.5658E-02 4.3948E+00 7.1546E+02 3.9329E+01 4.8058E+03  
3.1000E-01 1.0919E-09 6.2605E-07 2.5689E-02 4.3952E+00 7.1552E+02 3.9245E+01 4.7977E+03  
3.1500E-01 1.0908E-09 6.2613E-07 2.5641E-02 4.3952E+00 7.1558E+02 3.9200E+01 4.7898E+03  
3.2000E-01 1.0896E-09 6.2620E-07 2.5643E-02 4.3960E+00 7.1566E+02 3.9157E+01 4.7821E+03  
3.2500E-01 1.0885E-09 6.2627E-07 2.5645E-02 4.3964E+00 7.1572E+02 3.9116E+01 4.7747E+03  
3.3000E-01 1.0875E-09 6.2634E-07 2.5648E-02 4.3968E+00 7.1579E+02 3.9077E+01 4.7676E+03  
3.3500E-01 1.0865E-09 6.2642E-07 2.5650E-02 4.3972E+00 7.1587E+02 3.9041E+01 4.7607E+03  
3.4000E-01 1.0856E-09 6.2649E-07 2.5652E-02 4.3977E+00 7.1590E+02 3.8966E+01 4.7540E+03  
3.4500E-01 1.0846E-09 6.2656E-07 2.5655E-02 4.3981E+00 7.1590E+02 3.8933E+01 4.7476E+03  
3.5000E-01 1.0837E-09 6.2662E-07 2.5657E-02 4.3985E+00 7.1606E+02 3.8903E+01 4.7414E+03  
3.5500E-01 1.0829E-09 6.2669E-07 2.5660E-02 4.3990E+00 7.1614E+02 3.8870E+01 4.7355E+03  
3.6000E-01 1.0821E-09 6.2676E-07 2.5662E-02 4.3994E+00 7.1622E+02 3.8841E+01 4.7297E+03  
3.6500E-01 1.0813E-09 6.2683E-07 2.5665E-02 4.3999E+00 7.1630E+02 3.8813E+01 4.7241E+03  
3.7000E-01 1.0805E-09 6.2691E-07 2.5668E-02 4.4004E+00 7.1638E+02 3.8787E+01 4.7188E+03  
3.7500E-01 1.0797E-09 6.2697E-07 2.5670E-02 4.4008E+00 7.1642E+02 3.8762E+01 4.7136E+03  
3.8000E-01 1.0790E-09 6.2703E-07 2.5673E-02 4.4013E+00 7.1650E+02 3.8697E+01 4.7087E+03  
3.8500E-01 1.0784E-09 6.2710E-07 2.5676E-02 4.4017E+00 7.1658E+02 3.8674E+01 4.7039E+03  
3.9000E-01 1.0777E-09 6.2718E-07 2.5678E-02 4.4022E+00 7.1666E+02 3.8653E+01 4.6993E+03  
3.9500E-01 1.0771E-09 6.2723E-07 2.5681E-02 4.4026E+00 7.1674E+02 3.8632E+01 4.6949E+03  
4.0000E-01 1.0765E-09 6.2728E-07 2.5684E-02 4.4031E+00 7.1682E+02 3.8612E+01 4.6908E+03  
4.0500E-01 1.0759E-09 6.2736E-07 2.5686E-02 4.4035E+00 7.1690E+02 3.8594E+01 4.6865E+03  
4.1000E-01 1.0753E-09 6.2742E-07 2.5689E-02 4.4040E+00 7.1694E+02 3.8537E+01 4.6825E+03  
4.1500E-01 1.0748E-09 6.2748E-07 2.5692E-02 4.4044E+00 7.1701E+02 3.8520E+01 4.6787E+03  
4.2000E-01 1.0743E-09 6.2755E-07 2.5694E-02 4.4048E+00 7.1717E+02 3.8504E+01 4.6751E+03  
4.2500E-01 1.0738E-09 6.2759E-07 2.5697E-02 4.4053E+00 7.1724E+02 3.8475E+01 4.6716E+03  
4.3000E-01 1.0733E-09 6.2765E-07 2.5699E-02 4.4057E+00 7.1732E+02 3.8461E+01 4.6682E+03  
4.3500E-01 1.0728E-09 6.2771E-07 2.5702E-02 4.4061E+00 7.1735E+02 3.8411E+01 4.6650E+03  
4.4000E-01 1.0724E-09 6.2777E-07 2.5707E-02 4.4070E+00 7.1743E+02 3.8400E+01 4.6618E+03  
4.4500E-01 1.0720E-09 6.2782E-07 2.5709E-02 4.4074E+00 7.1750E+02 3.8398E+01 4.6589E+03  
4.5000E-01 1.0716E-09 6.2787E-07 2.5712E-02 4.4078E+00 7.1757E+02 3.8378E+01 4.6560E+03  
4.5500E-01 1.0712E-09 6.2792E-07 2.5714E-02 4.4082E+00 7.1764E+02 3.8368E+01 4.6533E+03  
4.6000E-01 1.0708E-09 6.2797E-07 2.5716E-02 4.4086E+00 7.1771E+02 3.8358E+01 4.6507E+03  
4.6500E-01 1.0705E-09 6.2803E-07 2.5719E-02 4.4089E+00 7.1775E+02 3.8358E+01 4.6481E+03  
4.7000E-01 1.0701E-09 6.2808E-07 2.5719E-02 4.4092E+00 7.1775E+02 3.8349E+01 4.6457E+03  
4.7500E-01 1.0698E-09 6.2813E-07 2.5721E-02 4.4093E+00 7.1781E+02 3.8340E+01 4.6434E+03  
4.8000E-01 1.0695E-09 6.2817E-07 2.5723E-02 4.4097E+00 7.1787E+02 3.8300E+01 4.6412E+03  
4.8500E-01 1.0692E-09 6.2822E-07 2.5725E-02 4.4100E+00 7.1794E+02 3.8293E+01 4.6390E+03  
4.9000E-01 1.0689E-09 6.2826E-07 2.5727E-02 4.4104E+00 7.1794E+02 3.8286E+01 4.6370E+03  
4.9500E-01 1.0687E-09 6.2830E-07 2.5730E-02 4.4108E+00 7.1806E+02 3.8279E+01 4.6351E+03  
5.0000E-01 1.0684E-09 6.2835E-07 2.5732E-02 4.4111E+00 7.1812E+02 3.8273E+01 4.6332E+03

ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
0.0000E+00	-6.2114E-01	4.0588E+01	1.0131E-05	1.0000E+01	4.8028E-08	3.9071E-06	3.1000E+02
5.0000E-03	7.2883E+00	4.0594E+01	1.0132E-05	1.0000E+01	-3.4418E-08	3.8940E-06	1.2370E-06
1.6280E+02	2.1598E-10	4.0873E+01	1.0132E-05	1.0000E+01	3.8940E-06	3.8940E-06	-2.7905E-06
7.4000E+00	2.4000E+00	4.0873E+01	1.0132E-05	1.0000E+01	-3.4418E-08	3.8940E-06	3.1535E-06
4.3290E-01	4.7700E-01	4.1003E+01	1.0138E-05	1.0000E+01	-2.1251E-08	3.8628E-06	-2.2260E-06
0.0000E+00	8.1000E+01	4.1200E+01	1.0143E-05	1.0000E+01	1.2269E-06	3.8546E-06	-1.5728E-06
	7.4254E+05	4.1395E+01	1.0143E-05	1.0000E+01	-7.5099E-07	3.8495E-06	-1.3265E-06
	5.9000E-04	4.1584E+01	1.0158E-05	1.0000E+01	-5.5017E-07	3.8462E-06	-1.3426E-06
	1.6280E+02	4.1782E+01	1.0167E-05	1.0000E+01	5.2208E-07	3.8435E-06	-1.5161E-06
	7.4000E+00	4.1930E+01	1.0178E-05	1.0000E+01	-5.0488E-07	3.8410E-06	-1.6798E-06
	4.3290E-01	4.2057E+01	1.0190E-05	1.0000E+01	-5.2348E-07	3.8385E-06	-1.8414E-06
	0.0000E+00	4.2233E+01	1.0202E-05	1.0000E+01	-5.4889E-07	3.8358E-06	-1.9833E-06
	7.4254E+05	4.2369E+01	1.0216E-05	1.0000E+01	-5.6773E-07	3.8330E-06	-2.0944E-06
	5.9000E-04	4.2497E+01	1.0230E-05	1.0000E+01	-5.7479E-07	3.8301E-06	-2.1811E-06
	1.6280E+02	4.2616E+01	1.0245E-05	1.0000E+01	-5.6885E-07	3.8272E-06	-2.1869E-06
	7.4000E+00	4.2728E+01	1.0260E-05	1.0000E+01	-5.4618E-07	3.8244E-06	-2.1937E-06
	4.3290E-01	4.2833E+01	1.0276E-05	1.0000E+01	-5.1218E-07	3.8166E-06	-2.0854E-06
	0.0000E+00	4.2931E+01	1.0309E-05	1.0000E+01	-4.7046E-07	3.8143E-06	-1.9921E-06
	7.4254E+05	4.3023E+01	1.0329E-05	1.0000E+01	-4.2350E-07	3.8123E-06	-1.8802E-06
	5.9000E-04	4.3109E+01	1.0342E-05	1.0000E+01	-3.7256E-07	3.8105E-06	-1.7542E-06
	1.6280E+02	4.3191E+01	1.0376E-05	1.0000E+01	-3.1939E-07	3.8089E-06	-1.6181E-06
	7.4000E+00	4.3267E+01	1.0396E-05	1.0000E+01	-2.9739E-07	3.8089E-06	-1.5087E-06
	4.3290E-01	4.3339E+01	1.0410E-05	1.0000E+01	-2.4311E-07	3.8077E-06	-1.3627E-06
	0.0000E+00	4.3408E+01	1.0430E-05	1.0000E+01	-1.8981E-07	3.8066E-06	-1.2156E-06
	7.4254E+05	4.3472E+01	1.0444E-05	1.0000E+01	-1.3769E-07	3.8058E-06	-1.0697E-06
	5.9000E-04	4.3533E+01	1.0465E-05	1.0000E+01	-8.7971E-08	3.8052E-06	-9.2665E-07
	1.6280E+02	4.3590E+01	1.0484E-05	1.0000E+01	-4.0919E-08	3.8049E-06	-7.8796E-07
	7.4000E+00	4.3645E+01	1.0508E-05	1.0000E+01	2.1490E-09	3.8047E-06	-6.5461E-07
	4.3290E-01	4.3697E+01	1.0537E-05	1.0000E+01	6.0349E-08	3.8048E-06	-5.1055E-07
	0.0000E+00	4.3746E+01	1.0573E-05	1.0000E+01	9.6348E-08	3.8050E-06	-4.2893E-07
	7.4254E+05	4.3793E+01	1.0618E-05	1.0000E+01	1.2904E-07	3.8054E-06	-3.1370E-07
	5.9000E-04	4.3837E+01	1.0661E-05	1.0000E+01	1.5850E-07	3.8060E-06	-2.0549E-07
	1.6280E+02	4.3880E+01	1.0715E-05	1.0000E+01	1.8483E-07	3.8067E-06	-1.0431E-07
	7.4000E+00	4.3958E+01	1.0773E-05	1.0000E+01	1.9477E-07	3.8085E-06	-1.0036E-08
	4.3290E-01	4.3995E+01	1.0803E-05	1.0000E+01	2.1670E-07	3.8095E-06	6.3529E-08
	0.0000E+00	4.4029E+01	1.0833E-05	1.0000E+01	2.3590E-07	3.8107E-06	1.4822E-07
	7.4254E+05	4.4094E+01	1.0867E-05	1.0000E+01	2.5255E-07	3.8119E-06	2.2231E-07
	5.9000E-04	4.4124E+01	1.0907E-05	1.0000E+01	2.6884E-07	3.8132E-06	3.5724E-07
	1.6280E+02	4.4153E+01	1.0955E-05	1.0000E+01	2.8994E-07	3.8146E-06	4.1680E-07
	7.4000E+00	4.4181E+01	1.0681E-05	1.0000E+01	2.8994E-07	3.8160E-06	4.7158E-07
	4.3290E-01	4.4207E+01	1.0688E-05	1.0000E+01	2.9176E-07	3.8174E-06	5.1625E-07
	0.0000E+00	4.4232E+01	1.0702E-05	1.0000E+01	2.9923E-07	3.8189E-06	5.6319E-07
	7.4254E+05	4.4255E+01	1.0715E-05	1.0000E+01	3.0513E-07	3.8204E-06	6.0633E-07
	5.9000E-04	4.4278E+01	1.0728E-05	1.0000E+01	3.0962E-07	3.8220E-06	6.4597E-07
	1.6280E+02	4.4296E+01	1.0740E-05	1.0000E+01	3.1284E-07	3.8235E-06	6.8242E-07
	7.4000E+00	4.4299E+01	1.0740E-05	1.0000E+01	3.1492E-07	3.8251E-06	7.1595E-07

2.3500E-01	3.9819E+00	4.4320E+01	1.0753E-06	1.0000E+01	3.1599E-07	3.8287E-06	7.4881E-07
2.4000E-01	3.7845E+00	4.4358E+01	1.0765E-05	1.0000E+01	3.1483E-07	3.8287E-06	7.7383E-07
2.4500E-01	3.5948E+00	4.4358E+01	1.0776E-05	1.0000E+01	3.1482E-07	3.8298E-06	8.0035E-07
2.5000E-01	3.4121E+00	4.4375E+01	1.0788E-05	1.0000E+01	3.1366E-07	3.8314E-06	8.2482E-07
2.5500E-01	3.2366E+00	4.4392E+01	1.0799E-05	1.0000E+01	3.1204E-07	3.8329E-06	8.4742E-07
2.6000E-01	3.0678E+00	4.4407E+01	1.0810E-05	1.0000E+01	3.0984E-07	3.8345E-06	8.6831E-07
2.6500E-01	2.9054E+00	4.4422E+01	1.0821E-05	1.0000E+01	3.0712E-07	3.8360E-06	8.8763E-07
2.7000E-01	2.7492E+00	4.4436E+01	1.0831E-05	1.0000E+01	3.0395E-07	3.8376E-06	9.0552E-07
2.7500E-01	2.5992E+00	4.4450E+01	1.0841E-05	1.0000E+01	3.0112E-07	3.8391E-06	9.2176E-07
2.8000E-01	2.4550E+00	4.4462E+01	1.0851E-05	1.0000E+01	2.9743E-07	3.8406E-06	9.3626E-07
2.8500E-01	2.3164E+00	4.4474E+01	1.0861E-05	1.0000E+01	2.9342E-07	3.8421E-06	9.5264E-07
2.9000E-01	2.1832E+00	4.4486E+01	1.0870E-05	1.0000E+01	2.8913E-07	3.8435E-06	9.6595E-07
2.9500E-01	2.0552E+00	4.4498E+01	1.0879E-05	1.0000E+01	2.8462E-07	3.8449E-06	9.7839E-07
3.0000E-01	1.9322E+00	4.4506E+01	1.0888E-05	1.0000E+01	2.7990E-07	3.8464E-06	9.8990E-07
3.0500E-01	1.8140E+00	4.4516E+01	1.0897E-05	1.0000E+01	2.7567E-07	3.8478E-06	1.0021E-06
3.1000E-01	1.7010E+00	4.4524E+01	1.0905E-05	1.0000E+01	2.7164E-07	3.8491E-06	1.0121E-06
3.1500E-01	1.5926E+00	4.4533E+01	1.0914E-05	1.0000E+01	2.6783E-07	3.8505E-06	1.0214E-06
3.2000E-01	1.4886E+00	4.4540E+01	1.0922E-05	1.0000E+01	2.6433E-07	3.8518E-06	1.0300E-06
3.2500E-01	1.3897E+00	4.4548E+01	1.0929E-05	1.0000E+01	2.6119E-07	3.8531E-06	1.0380E-06
3.3000E-01	1.2957E+00	4.4554E+01	1.0937E-05	1.0000E+01	2.5838E-07	3.8543E-06	1.0454E-06
3.3500E-01	1.2069E+00	4.4560E+01	1.0944E-05	1.0000E+01	2.4552E-07	3.8555E-06	1.0522E-06
3.4000E-01	1.1130E+00	4.4566E+01	1.0951E-05	1.0000E+01	2.4211E-07	3.8568E-06	1.0605E-06
3.4500E-01	1.0291E+00	4.4572E+01	1.0958E-05	1.0000E+01	2.3674E-07	3.8580E-06	1.0664E-06
3.5000E-01	9.4881E-01	4.4577E+01	1.0965E-05	1.0000E+01	2.3135E-07	3.8592E-06	1.0718E-06
3.5500E-01	8.7186E-01	4.4581E+01	1.0972E-05	1.0000E+01	2.2596E-07	3.8603E-06	1.0768E-06
3.6000E-01	7.9815E-01	4.4585E+01	1.0978E-05	1.0000E+01	2.2057E-07	3.8614E-06	1.0814E-06
3.6500E-01	7.2756E-01	4.4589E+01	1.0984E-05	1.0000E+01	2.1520E-07	3.8625E-06	1.0856E-06
3.7000E-01	6.5998E-01	4.4593E+01	1.0990E-05	1.0000E+01	2.0985E-07	3.8636E-06	1.0894E-06
3.7500E-01	5.9574E-01	4.4598E+01	1.0996E-05	1.0000E+01	2.0664E-07	3.8648E-06	1.0950E-06
3.8000E-01	5.3457E-01	4.4598E+01	1.1001E-05	1.0000E+01	2.0138E-07	3.8656E-06	1.0982E-06
3.8500E-01	4.7608E-01	4.4603E+01	1.1007E-05	1.0000E+01	1.9615E-07	3.8666E-06	1.1011E-06
3.9000E-01	4.2016E-01	4.4603E+01	1.1012E-05	1.0000E+01	1.9098E-07	3.8676E-06	1.1037E-06
3.9500E-01	3.6671E-01	4.4605E+01	1.1017E-05	1.0000E+01	1.8585E-07	3.8686E-06	1.1060E-06
4.0000E-01	3.1563E-01	4.4607E+01	1.1022E-05	1.0000E+01	1.8079E-07	3.8695E-06	1.1081E-06
4.0500E-01	2.6684E-01	4.4608E+01	1.1027E-05	1.0000E+01	1.7578E-07	3.8704E-06	1.1100E-06
4.1000E-01	2.2098E-01	4.4610E+01	1.1031E-05	1.0000E+01	1.7089E-07	3.8712E-06	1.1136E-06
4.1500E-01	1.7711E-01	4.4611E+01	1.1036E-05	1.0000E+01	1.6601E-07	3.8721E-06	1.1150E-06
4.2000E-01	1.3556E-01	4.4611E+01	1.1040E-05	1.0000E+01	1.6320E-07	3.8729E-06	1.1162E-06
4.2500E-01	9.554E-02	4.4612E+01	1.1044E-05	1.0000E+01	1.5846E-07	3.8737E-06	1.1173E-06
4.3000E-01	5.7650E-02	4.4612E+01	1.1048E-05	1.0000E+01	1.5380E-07	3.8745E-06	1.1181E-06
4.3500E-01	2.1492E-02	4.4613E+01	1.1052E-05	1.0000E+01	1.4922E-07	3.8753E-06	1.1188E-06
4.4000E-01	-1.2837E-02	4.4613E+01	1.1055E-05	1.0000E+01	1.4663E-07	3.8760E-06	1.1212E-06
4.4500E-01	-4.4920E-02	4.4612E+01	1.1059E-05	1.0000E+01	1.4219E-07	3.8767E-06	1.1216E-06
4.5000E-01	-7.5434E-02	4.4612E+01	1.1062E-05	1.0000E+01	1.3783E-07	3.8774E-06	1.1218E-06
4.5500E-01	-1.0442E-01	4.4612E+01	1.1066E-05	1.0000E+01	1.3355E-07	3.8781E-06	1.1219E-06
4.6000E-01	-1.3195E-01	4.4611E+01	1.1069E-05	1.0000E+01	1.2935E-07	3.8787E-06	1.1219E-06
4.6500E-01	-1.5807E-01	4.4610E+01	1.1072E-05	1.0000E+01	1.2524E-07	3.8794E-06	1.1218E-06
4.7000E-01	-1.8285E-01	4.4609E+01	1.1075E-05	1.0000E+01	1.2127E-07	3.8800E-06	1.1215E-06
4.7500E-01	-2.0610E-01	4.4609E+01	1.1078E-05	1.0000E+01	1.1899E-07	3.8806E-06	1.1229E-06
4.8000E-01	-2.2774E-01	4.4607E+01	1.1080E-05	1.0000E+01	1.1511E-07	3.8812E-06	1.1225E-06
4.8500E-01	-2.4820E-01	4.4606E+01	1.1083E-05	1.0000E+01	1.1132E-07	3.8818E-06	1.1220E-06
4.9000E-01	-2.6752E-01	4.4605E+01	1.1085E-05	1.0000E+01	1.0781E-07	3.8823E-06	1.1214E-06
4.9500E-01	-2.8575E-01	4.4604E+01	1.1088E-05	1.0000E+01	1.0398E-07	3.8828E-06	1.1207E-06
5.0000E-01	-3.0294E-01	4.4602E+01	1.1090E-05	1.0000E+01	1.0044E-07	3.8833E-06	1.1200E-06



ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE	27 VARIABLE	28 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.8330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+06	2.5800E+01	7.4400E+01	7.1740E+00
1.8280E+02	2.1589E-10	3.3566E+03	2.7800E+01	1.7760E+02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E+01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2880E-08	1.2215E+01	7.2259E+00
0.0000E+00	8.0000E+01						
0.0000E+00	2.557E+00	1.431E+02	2.6158E+02	6.8286E+02	3.5600E+03	1.2304E+00	7.0652E+02
5.0000E-03	1.1040E+00	1.4110E+02	2.6161E+02	6.8287E+02	3.5600E+03	1.2994E+00	7.3709E+02
1.0000E-02	-1.4992E+00	-3.7278E+01	2.6138E+02	6.8353E+02	3.5600E+03	1.4508E+00	7.3970E+02
1.5000E-02	-2.7797E+00	-1.4288E+02	2.6080E+02	6.8453E+02	3.5600E+03	1.5603E+00	7.3220E+02
2.0000E-02	-3.1244E+00	-1.7465E+02	2.6011E+02	6.8579E+02	3.5600E+03	1.6251E+00	7.2650E+02
3.0000E-02	-3.0816E+00	-1.7388E+02	2.5939E+02	6.8716E+02	3.5600E+03	1.6592E+00	7.2372E+02
4.0000E-02	-2.9852E+00	-1.6750E+02	2.5868E+02	6.8853E+02	3.5600E+03	1.6752E+00	7.2287E+02
5.0000E-02	-2.9740E+00	-1.6611E+02	2.5798E+02	6.8979E+02	3.5600E+03	1.6813E+00	7.2321E+02
6.0000E-02	-3.0740E+00	-1.6897E+02	2.5728E+02	6.9087E+02	3.5600E+03	1.6822E+00	7.2345E+02
7.0000E-02	-3.2618E+00	-1.7646E+02	2.5658E+02	6.9171E+02	3.5600E+03	1.6770E+00	7.2412E+02
8.0000E-02	-3.4962E+00	-1.9198E+02	2.5582E+02	6.9228E+02	3.5600E+03	1.6728E+00	7.2408E+02
9.0000E-02	-3.7391E+00	-2.0673E+02	2.5504E+02	6.9263E+02	3.5600E+03	1.6681E+00	7.2408E+02
1.0000E-01	-3.9608E+00	-2.2044E+02	2.5424E+02	6.9285E+02	3.5600E+03	1.6631E+00	7.2368E+02
1.5000E-01	-4.1410E+00	-2.3156E+02	2.5341E+02	6.9295E+02	3.5600E+03	1.6578E+00	7.2329E+02
2.0000E-01	-4.2671E+00	-2.3584E+02	2.5255E+02	6.9295E+02	3.5600E+03	1.6524E+00	7.2257E+02
3.0000E-01	-4.3379E+00	-2.4154E+02	2.5168E+02	6.9148E+02	3.5600E+03	1.6469E+00	7.2171E+02
4.0000E-01	-4.3877E+00	-2.4329E+02	2.5081E+02	6.9077E+02	3.5600E+03	1.6413E+00	7.2074E+02
5.0000E-01	-4.4185E+00	-2.4516E+02	2.4994E+02	6.8956E+02	3.5600E+03	1.6357E+00	7.1969E+02
6.0000E-01	-4.4376E+00	-2.4710E+02	2.4823E+02	6.8804E+02	3.5600E+03	1.6301E+00	7.1858E+02
7.0000E-01	-4.4535E+00	-2.4919E+02	2.4711E+02	6.8690E+02	3.5600E+03	1.6246E+00	7.1744E+02
8.0000E-01	-4.4672E+00	-2.5142E+02	2.4661E+02	6.8511E+02	3.5600E+03	1.6190E+00	7.1657E+02
9.0000E-01	-4.4785E+00	-2.5385E+02	2.4616E+02	6.8414E+02	3.5600E+03	1.6134E+00	7.1544E+02
1.0000E-01	-4.4872E+00	-2.5648E+02	2.4585E+02	6.8321E+02	3.5600E+03	1.6079E+00	7.1434E+02
1.5000E-01	-4.4937E+00	-2.5937E+02	2.4442E+02	6.8232E+02	3.5600E+03	1.6025E+00	7.1327E+02
2.0000E-01	-4.5072E+00	-2.6255E+02	2.4376E+02	6.8148E+02	3.5600E+03	1.5971E+00	7.1226E+02
3.0000E-01	-4.5270E+00	-2.6683E+02	2.4314E+02	6.8069E+02	3.5600E+03	1.5918E+00	7.1130E+02
4.0000E-01	-4.5533E+00	-2.7232E+02	2.4255E+02	6.7996E+02	3.5600E+03	1.5866E+00	7.1039E+02
5.0000E-01	-4.5864E+00	-2.7908E+02	2.4201E+02	6.7930E+02	3.5600E+03	1.5814E+00	7.0975E+02
6.0000E-01	-4.6262E+00	-2.8702E+02	2.4150E+02	6.7869E+02	3.5600E+03	1.5762E+00	7.0895E+02
7.0000E-01	-4.6728E+00	-2.9622E+02	2.4098E+02	6.7813E+02	3.5600E+03	1.5711E+00	7.0823E+02
8.0000E-01	-4.7265E+00	-3.0684E+02	2.4047E+02	6.7764E+02	3.5600E+03	1.5661E+00	7.0757E+02
9.0000E-01	-4.7874E+00	-3.1900E+02	2.3980E+02	6.7719E+02	3.5600E+03	1.5611E+00	7.0697E+02
1.0000E-01	-4.8559E+00	-3.3274E+02	2.3945E+02	6.7680E+02	3.5600E+03	1.5562E+00	7.0643E+02
1.5000E-01	-4.9327E+00	-3.4820E+02	2.3913E+02	6.7646E+02	3.5600E+03	1.5514E+00	7.0605E+02
2.0000E-01	-5.0184E+00	-3.6548E+02	2.3884E+02	6.7617E+02	3.5600E+03	1.5466E+00	7.0571E+02
3.0000E-01	-5.1147E+00	-3.8472E+02	2.3857E+02	6.7591E+02	3.5600E+03	1.5418E+00	7.0542E+02
4.0000E-01	-5.2220E+00	-4.0602E+02	2.3832E+02	6.7570E+02	3.5600E+03	1.5371E+00	7.0487E+02
5.0000E-01	-5.3418E+00	-4.2948E+02	2.3805E+02	6.7552E+02	3.5600E+03	1.5325E+00	7.0456E+02
6.0000E-01	-5.4748E+00	-4.5512E+02	2.3788E+02	6.7538E+02	3.5600E+03	1.5279E+00	7.0430E+02
7.0000E-01	-5.6214E+00	-4.8302E+02	2.3769E+02	6.7526E+02	3.5600E+03	1.5234E+00	7.0407E+02
8.0000E-01	-5.7832E+00	-5.1338E+02	2.3759E+02	6.7518E+02	3.5600E+03	1.5189E+00	7.0392E+02
9.0000E-01	-5.9608E+00	-5.4648E+02	2.3737E+02	6.7512E+02	3.5600E+03	1.5145E+00	7.0375E+02
1.0000E-01	-6.1559E+00	-5.8342E+02	2.3723E+02	6.7508E+02	3.5600E+03	1.5101E+00	7.0361E+02
1.5000E-01	-6.3698E+00	-6.2562E+02	2.3711E+02	6.7506E+02	3.5600E+03	1.5058E+00	7.0350E+02
2.0000E-01	-6.6048E+00	-6.7720E+02	2.3699E+02	6.7505E+02	3.5600E+03	1.5016E+00	7.0340E+02
3.0000E-01	-6.8618E+00	-7.3842E+02	2.3689E+02	6.7505E+02	3.5600E+03	1.4974E+00	7.0333E+02

2.3500E-01	1.3530E+00	7.5893E+01	2.3699E+02	6.7507E+02	3.5600E+03	1.4933E+00	7.0328E+02
2.4000E-01	1.4754E+00	7.7915E+01	2.3679E+02	6.7509E+02	3.5600E+03	1.4892E+00	7.0325E+02
2.4500E-01	1.4922E+00	8.2101E+01	2.3671E+02	6.7513E+02	3.5600E+03	1.4933E+00	7.0322E+02
2.5000E-01	1.5540E+00	8.5045E+01	2.3663E+02	6.7518E+02	3.5600E+03	1.4814E+00	7.0321E+02
2.5500E-01	1.6111E+00	8.9378E+01	2.3656E+02	6.7525E+02	3.5600E+03	1.4755E+00	7.0321E+02
2.6000E-01	1.6400E+00	9.274E+01	2.3650E+02	6.7531E+02	3.5600E+03	1.4738E+00	7.0322E+02
2.6500E-01	1.7129E+00	9.5713E+01	2.3645E+02	6.7539E+02	3.5600E+03	1.4701E+00	7.0324E+02
2.7000E-01	1.7595E+00	9.8466E+01	2.3640E+02	6.7547E+02	3.5600E+03	1.4665E+00	7.0327E+02
2.7500E-01	1.8004E+00	9.9781E+01	2.3636E+02	6.7556E+02	3.5600E+03	1.4629E+00	7.0330E+02
2.8000E-01	1.8399E+00	1.0220E+02	2.3633E+02	6.7565E+02	3.5600E+03	1.4594E+00	7.0334E+02
2.8500E-01	1.8758E+00	1.0445E+02	2.3630E+02	6.7575E+02	3.5600E+03	1.4560E+00	7.0334E+02
2.9000E-01	1.9095E+00	1.0653E+02	2.3628E+02	6.7585E+02	3.5600E+03	1.4527E+00	7.0334E+02
2.9500E-01	1.9409E+00	1.0846E+02	2.3626E+02	6.7595E+02	3.5600E+03	1.4495E+00	7.0334E+02
3.0000E-01	1.9702E+00	1.1024E+02	2.3624E+02	6.7606E+02	3.5600E+03	1.4463E+00	7.0334E+02
3.0500E-01	1.9974E+00	1.1108E+02	2.3623E+02	6.7616E+02	3.5600E+03	1.4432E+00	7.0355E+02
3.1000E-01	2.0227E+00	1.1266E+02	2.3622E+02	6.7627E+02	3.5600E+03	1.4402E+00	7.0367E+02
3.1500E-01	2.0463E+00	1.1413E+02	2.3621E+02	6.7638E+02	3.5600E+03	1.4372E+00	7.0374E+02
3.2000E-01	2.0689E+00	1.1549E+02	2.3621E+02	6.7649E+02	3.5600E+03	1.4342E+00	7.0381E+02
3.2500E-01	2.0898E+00	1.1675E+02	2.3621E+02	6.7660E+02	3.5600E+03	1.4312E+00	7.0388E+02
3.3000E-01	2.1079E+00	1.1792E+02	2.3621E+02	6.7671E+02	3.5600E+03	1.4282E+00	7.0395E+02
3.3500E-01	2.1257E+00	1.1900E+02	2.3622E+02	6.7682E+02	3.5600E+03	1.4252E+00	7.0403E+02
3.4000E-01	2.1423E+00	1.1951E+02	2.3623E+02	6.7694E+02	3.5600E+03	1.4222E+00	7.0409E+02
3.4500E-01	2.1576E+00	1.2048E+02	2.3624E+02	6.7705E+02	3.5600E+03	1.4192E+00	7.0417E+02
3.5000E-01	2.1719E+00	1.2137E+02	2.3625E+02	6.7716E+02	3.5600E+03	1.4162E+00	7.0425E+02
3.5500E-01	2.1852E+00	1.2219E+02	2.3626E+02	6.7727E+02	3.5600E+03	1.4132E+00	7.0433E+02
3.6000E-01	2.1975E+00	1.2295E+02	2.3628E+02	6.7737E+02	3.5600E+03	1.4102E+00	7.0441E+02
3.6500E-01	2.2090E+00	1.2364E+02	2.3630E+02	6.7748E+02	3.5600E+03	1.4072E+00	7.0448E+02
3.7000E-01	2.2196E+00	1.2429E+02	2.3632E+02	6.7759E+02	3.5600E+03	1.4042E+00	7.0456E+02
3.7500E-01	2.2295E+00	1.2495E+02	2.3634E+02	6.7770E+02	3.5600E+03	1.4012E+00	7.0463E+02
3.8000E-01	2.2389E+00	1.2551E+02	2.3636E+02	6.7780E+02	3.5600E+03	1.4012E+00	7.0471E+02
3.8500E-01	2.2465E+00	1.2567E+02	2.3638E+02	6.7790E+02	3.5600E+03	1.4012E+00	7.0478E+02
3.9000E-01	2.2541E+00	1.2614E+02	2.3640E+02	6.7801E+02	3.5600E+03	1.4012E+00	7.0486E+02
3.9500E-01	2.2611E+00	1.2656E+02	2.3643E+02	6.7811E+02	3.5600E+03	1.3993E+00	7.0494E+02
4.0000E-01	2.2674E+00	1.2695E+02	2.3645E+02	6.7821E+02	3.5600E+03	1.3975E+00	7.0502E+02
4.0500E-01	2.2733E+00	1.2730E+02	2.3648E+02	6.7830E+02	3.5600E+03	1.3957E+00	7.0510E+02
4.1000E-01	2.2784E+00	1.2766E+02	2.3651E+02	6.7840E+02	3.5600E+03	1.3940E+00	7.0515E+02
4.1500E-01	2.2831E+00	1.2798E+02	2.3654E+02	6.7849E+02	3.5600E+03	1.3923E+02	7.0523E+02
4.2000E-01	2.2873E+00	1.2831E+00	2.3656E+02	6.7859E+02	3.5600E+03	1.3907E+00	7.0530E+02
4.2500E-01	2.2911E+00	1.2863E+02	2.3659E+02	6.7868E+02	3.5600E+03	1.3891E+00	7.0538E+02
4.3000E-01	2.2945E+00	1.2894E+02	2.3662E+02	6.7877E+02	3.5600E+03	1.3876E+00	7.0545E+02
4.3500E-01	2.2974E+00	1.2924E+02	2.3665E+02	6.7886E+02	3.5600E+03	1.3861E+00	7.0552E+02
4.4000E-01	2.3000E+00	1.2953E+02	2.3668E+02	6.7895E+02	3.5600E+03	1.3847E+00	7.0558E+02
4.4500E-01	2.3022E+00	1.2987E+02	2.3671E+02	6.7903E+02	3.5600E+03	1.3833E+00	7.0565E+02
4.5000E-01	2.3040E+00	1.2995E+03	2.3674E+02	6.7911E+02	3.5600E+03	1.3820E+00	7.0572E+02
4.5500E-01	2.3055E+00	1.2995E+03	2.3677E+02	6.7919E+02	3.5600E+03	1.3807E+00	7.0578E+02
4.6000E-01	2.3087E+00	1.2917E+03	2.3680E+02	6.7927E+02	3.5600E+03	1.3795E+00	7.0585E+02
4.6500E-01	2.3077E+00	1.2925E+02	2.3684E+02	6.7935E+02	3.5600E+03	1.3783E+00	7.0591E+02
4.7000E-01	2.3084E+00	1.2927E+02	2.3687E+02	6.7943E+02	3.5600E+03	1.3771E+00	7.0598E+02
4.7500E-01	2.3089E+00	1.2929E+02	2.3690E+02	6.7950E+02	3.5600E+03	1.3760E+00	7.0603E+02
4.8000E-01	2.3090E+00	1.2930E+02	2.3693E+02	6.7957E+02	3.5600E+03	1.3750E+00	7.0609E+02
4.8500E-01	2.3090E+00	1.2931E+02	2.3696E+02	6.7965E+02	3.5600E+03	1.3739E+00	7.0615E+02
4.9000E-01	2.3087E+00	1.2930E+02	2.3699E+02	6.7971E+02	3.5600E+03	1.3729E+00	7.0621E+02
4.9500E-01	2.3083E+00	1.2927E+02	2.3702E+02	6.7978E+02	3.5600E+03	1.3719E+00	7.0627E+02
5.0000E-01	2.3077E+00	1.2924E+02	2.3705E+02	6.7985E+02	3.5600E+03	1.3710E+00	7.0632E+02

Appendix #37.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

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1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
1.0000E-05	7.4254E+05	9.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	2.5600E+01	7.4400E+01	1.7140E+00
1.6280E+02	2.1589E-10	3.3568E+03	2.7800E+01	1.7760E-02	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E-08	2.0000E+01	5.5611E-01	1.7000E+00	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	1.2215E+01	7.2259E+00
0.0000E+00	0.0000E+00					

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TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.0000E+00	5.5500E+00	-2.1322E-07	-1.8541E-03	-4.6150E-02	3.6962E-01	1.8019E+00	-3.2499E-08
5.0000E-03	5.5500E+00	4.774E-08	1.2994E-02	2.7590E+00	3.8538E-01	4.6859E+00	5.1762E-05
1.0000E-02	5.5500E+00	4.6283E-08	2.2377E-02	2.0866E+00	3.9742E-01	4.0737E+00	3.0714E-05
2.0000E-02	5.5500E+00	4.3607E-08	2.7817E-02	1.5672E+00	4.0649E-01	3.5997E+00	1.5681E-05
3.0000E-02	5.5500E+00	4.0277E-08	3.0063E-02	1.1720E+00	4.1330E-01	3.2384E+00	6.0319E-06
4.0000E-02	5.5500E+00	3.6743E-08	3.0583E-02	8.7804E-01	4.1838E-01	2.9700E+00	2.1513E-07
5.0000E-02	5.5500E+00	3.3254E-08	2.9881E-02	6.6264E-01	4.2211E-01	2.7737E+00	-2.1178E-07
6.0000E-02	5.5500E+00	2.9932E-08	2.8488E-02	5.0528E-01	4.2511E-01	2.6308E+00	-4.9120E-08
7.0000E-02	5.5500E+00	2.6826E-08	2.6488E-02	3.8941E-01	4.2733E-01	2.5261E+00	-5.7829E-08
8.0000E-02	5.5500E+00	2.3949E-08	2.4391E-02	3.0265E-01	4.2905E-01	2.4479E+00	-6.1038E-08
9.0000E-02	5.5500E+00	2.1295E-08	2.234E-02	2.3612E-01	4.3039E-01	2.3881E+00	-6.1015E-08
1.0000E-01	5.5500E+00	1.8854E-08	2.0104E-02	1.8368E-01	4.3133E-01	2.3409E+00	-5.9154E-08
1.5000E-01	5.5500E+00	1.6609E-08	1.8052E-02	1.4116E-01	4.3244E-01	2.3024E+00	-5.6310E-08
2.0000E-01	5.5500E+00	1.4547E-08	1.6106E-02	1.0572E-01	4.3286E-01	2.2700E+00	-5.3004E-08
3.0000E-01	5.5500E+00	1.2651E-08	1.4280E-02	7.5466E-02	4.3311E-01	2.2420E+00	-4.9572E-08
4.0000E-01	5.5500E+00	1.0910E-08	1.2577E-02	5.8187E-02	4.3322E-01	2.2173E+00	-4.6201E-08
5.0000E-01	5.5500E+00	9.3101E-07	1.0996E-02	4.5958E-02	4.3380E-01	2.1950E+00	-4.2947E-08
6.0000E-01	5.5500E+00	7.8397E-07	9.596E-03	3.5055E-02	4.3386E-01	2.1746E+00	-3.9866E-08
7.0000E-01	5.5500E+00	6.666E-07	8.1866E-03	2.7488E-02	4.3366E-01	2.1558E+00	-3.6981E-08
8.0000E-01	5.5500E+00	5.7471E-07	6.9427E-03	-3.0421E-02	4.3356E-01	2.1220E+00	-3.4303E-08
9.0000E-01	5.5500E+00	4.1064E-07	5.7872E-03	-4.5815E-02	4.3356E-01	2.1220E+00	-3.1827E-08
1.0000E-01	5.5500E+00	3.0587E-07	4.7431E-03	-5.9841E-02	4.3295E-01	2.1066E+00	-2.9558E-08
1.5000E-01	5.5500E+00	2.0960E-07	3.7737E-03	-7.2631E-02	4.3296E-01	2.0922E+00	-2.7472E-08
2.0000E-01	5.5500E+00	1.2134E-07	2.8627E-03	-8.4298E-02	4.3257E-01	2.0785E+00	-2.5549E-08
3.0000E-01	5.5500E+00	-3.3977E-08	2.0640E-03	-9.4935E-02	4.3212E-01	2.0657E+00	-2.3776E-08
4.0000E-01	5.5500E+00	-1.0206E-07	1.3123E-03	-1.0483E-01	4.3162E-01	2.0535E+00	-2.2143E-08
5.0000E-01	5.5500E+00	-1.6439E-07	6.2245E-04	-1.1344E-01	4.3108E-01	2.0419E+00	-2.0640E-08
6.0000E-01	5.5500E+00	-2.2142E-07	-1.0313E-05	-1.2144E-01	4.3049E-01	2.0310E+00	-1.9257E-08
7.0000E-01	5.5500E+00	-2.7353E-07	-8.9029E-04	-1.2870E-01	4.2986E-01	2.0206E+00	-1.7980E-08
8.0000E-01	5.5500E+00	-3.2109E-07	-1.1215E-03	-1.3525E-01	4.2920E-01	2.0108E+00	-1.6798E-08
9.0000E-01	5.5500E+00	-3.6444E-07	-1.6076E-03	-1.4116E-01	4.2851E-01	2.0014E+00	-1.5798E-08
1.0000E-01	5.5500E+00	-4.0390E-07	-2.0519E-03	-1.4647E-01	4.2785E-01	1.9925E+00	-1.4701E-08
1.5000E-01	5.5500E+00	-4.3974E-07	-2.4577E-03	-1.5172E-01	4.2705E-01	1.9840E+00	-1.3772E-08
2.0000E-01	5.5500E+00	-4.7224E-07	-3.1647E-03	-1.5545E-01	4.2625E-01	1.9760E+00	-1.2914E-08
3.0000E-01	5.5500E+00	-5.0164E-07	-3.4711E-03	-1.5918E-01	4.2548E-01	1.9683E+00	-1.2122E-08
4.0000E-01	5.5500E+00	-5.2817E-07	-3.7490E-03	-1.6293E-01	4.2469E-01	1.9540E+00	-1.1374E-08
5.0000E-01	5.5500E+00	-5.5203E-07	-4.0007E-03	-1.6666E-01	4.2387E-01	1.9540E+00	-1.0681E-08
6.0000E-01	5.5500E+00	-5.7343E-07	-4.2281E-03	-1.6999E-01	4.2304E-01	1.9473E+00	-1.0040E-08
7.0000E-01	5.5500E+00	-5.9252E-07	-4.4328E-03	-1.7179E-01	4.2219E-01	1.9410E+00	-9.4473E-07
8.0000E-01	5.5500E+00	-6.0950E-07	-4.6166E-03	-1.7377E-01	4.2134E-01	1.9349E+00	-8.8991E-07
9.0000E-01	5.5500E+00	-6.2449E-07	-4.7810E-03	-1.7446E-01	4.2047E-01	1.9291E+00	-8.3926E-07
1.0000E-01	5.5500E+00	-6.3766E-07	-4.9274E-03	-1.7446E-01	4.1960E-01	1.9236E+00	-7.9159E-07
1.5000E-01	5.5500E+00	-6.4913E-07	-5.0570E-03	-1.7538E-01	4.1873E+00	1.9183E+00	-7.4596E-07
2.0000E-01	5.5500E+00	-6.5907E-07	-5.1712E-03	-1.7649E-01	4.1785E-01	1.9132E+00	-7.0363E-07
3.0000E-01	5.5500E+00	-6.6792E-07	-5.2712E-03	-1.7649E-01	4.1697E-01	1.9084E+00	-6.6440E-07

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2.2500E-01	5.5500E+00	-6.6744E-07	-5.2709E-03	-1.7671E-01	4.1609E-01	1.9037E+00	-6.2806E-07
2.3000E-01	5.5500E+00	-6.7451E-07	-5.3573E-03	-1.7673E-01	4.1520E-01	1.8993E+00	-5.9443E-07
2.3500E-01	5.5500E+00	-6.8031E-07	-5.4313E-03	-1.7656E-01	4.1432E-01	1.8950E+00	-5.6333E-07
2.4000E-01	5.5500E+00	-6.8494E-07	-5.4936E-03	-1.7622E-01	4.1344E-01	1.8910E+00	-5.3298E-07
2.4500E-01	5.5500E+00	-6.8849E-07	-5.5457E-03	-1.7572E-01	4.1256E-01	1.8873E+00	-5.0382E-07
2.5000E-01	5.5500E+00	-6.9103E-07	-5.5876E-03	-1.7507E-01	4.1168E-01	1.8833E+00	-4.7678E-07
2.5500E-01	5.5500E+00	-6.9264E-07	-5.6203E-03	-1.7428E-01	4.1081E-01	1.8798E+00	-4.5170E-07
2.6000E-01	5.5500E+00	-6.9332E-07	-5.644E-03	-1.7337E-01	4.0994E-01	1.8763E+00	-4.2848E-07
2.6500E-01	5.5500E+00	-6.9252E-07	-5.6608E-03	-1.7234E-01	4.0907E-01	1.8730E+00	-4.0699E-07
2.7000E-01	5.5500E+00	-6.9102E-07	-5.6698E-03	-1.7120E-01	4.0822E-01	1.8699E+00	-3.8715E-07
2.7500E-01	5.5500E+00	-6.8899E-07	-5.6720E-03	-1.6995E-01	4.0736E-01	1.8669E+00	-3.6654E-07
2.8000E-01	5.5500E+00	-6.8618E-07	-5.6662E-03	-1.6862E-01	4.0652E-01	1.8640E+00	-3.4710E-07
2.8500E-01	5.5500E+00	-6.8262E-07	-5.6520E-03	-1.6720E-01	4.0568E-01	1.8612E+00	-3.2907E-07
2.9000E-01	5.5500E+00	-6.7829E-07	-5.6242E-03	-1.6571E-01	4.0484E-01	1.8585E+00	-3.1239E-07
2.9500E-01	5.5500E+00	-6.7315E-07	-5.5875E-03	-1.6414E-01	4.0402E-01	1.8560E+00	-2.9697E-07
3.0000E-01	5.5500E+00	-6.6749E-07	-5.5495E-03	-1.6251E-01	4.0320E-01	1.8535E+00	-2.8274E-07
3.0500E-01	5.5500E+00	-6.6128E-07	-5.5115E-03	-1.6082E-01	4.0239E-01	1.8511E+00	-2.6932E-07
3.1000E-01	5.5500E+00	-6.5524E-07	-5.4735E-03	-1.5908E-01	4.0159E-01	1.8489E+00	-2.5478E-07
3.1500E-01	5.5500E+00	-6.4944E-07	-5.4355E-03	-1.5729E-01	4.0080E-01	1.8467E+00	-2.4132E-07
3.2000E-01	5.5500E+00	-6.4388E-07	-5.4007E-03	-1.5545E-01	4.0002E-01	1.8447E+00	-2.2888E-07
3.2500E-01	5.5500E+00	-6.3808E-07	-5.3698E-03	-1.5358E-01	3.9925E-01	1.8427E+00	-2.1741E-07
3.3000E-01	5.5500E+00	-6.3222E-07	-5.3215E-03	-1.5167E-01	3.9849E-01	1.8408E+00	-2.0686E-07
3.3500E-01	5.5500E+00	-6.2644E-07	-5.2707E-03	-1.4973E-01	3.9773E-01	1.8389E+00	-1.9717E-07
3.4000E-01	5.5500E+00	-6.2044E-07	-5.2179E-03	-1.4775E-01	3.9698E-01	1.8372E+00	-1.8742E-07
3.4500E-01	5.5500E+00	-6.1425E-07	-5.1631E-03	-1.4575E-01	3.9623E-01	1.8355E+00	-1.7703E-07
3.5000E-01	5.5500E+00	-6.0895E-07	-5.1066E-03	-1.4375E-01	3.9548E-01	1.8339E+00	-1.6745E-07
3.5500E-01	5.5500E+00	-6.0347E-07	-5.0485E-03	-1.4175E-01	3.9473E-01	1.8324E+00	-1.5865E-07
3.6000E-01	5.5500E+00	-5.9785E-07	-4.9890E-03	-1.3975E-01	3.9398E-01	1.8309E+00	-1.5058E-07
3.6500E-01	5.5500E+00	-5.9212E-07	-4.9283E-03	-1.3775E-01	3.9323E-01	1.8295E+00	-1.4320E-07
3.7000E-01	5.5500E+00	-5.8629E-07	-4.8663E-03	-1.3575E-01	3.9248E-01	1.8281E+00	-1.3649E-07
3.7500E-01	5.5500E+00	-5.8038E-07	-4.8035E-03	-1.3375E-01	3.9173E-01	1.8268E+00	-1.2905E-07
3.8000E-01	5.5500E+00	-5.7434E-07	-4.7397E-03	-1.3175E-01	3.9100E-01	1.8256E+00	-1.2148E-07
3.8500E-01	5.5500E+00	-5.6824E-07	-4.6752E-03	-1.2975E-01	3.9025E-01	1.8244E+00	-1.1455E-07
3.9000E-01	5.5500E+00	-5.6202E-07	-4.6100E-03	-1.2775E-01	3.9011E-01	1.8233E+00	-1.0822E-07
3.9500E-01	5.5500E+00	-5.5573E-07	-4.5443E-03	-1.2575E-01	3.8948E-01	1.8222E+00	-1.0247E-07
4.0000E-01	5.5500E+00	-5.4933E-07	-4.4782E-03	-1.2314E-01	3.8886E-01	1.8211E+00	-9.7357E-08
4.0500E-01	5.5500E+00	-5.4285E-07	-4.4117E-03	-1.2108E-01	3.8825E-01	1.8202E+00	-9.2559E-08
4.1000E-01	5.5500E+00	-5.3629E-07	-4.3449E-03	-1.1902E-01	3.8765E-01	1.8192E+00	-8.7668E-08
4.1500E-01	5.5500E+00	-5.2964E-07	-4.2779E-03	-1.1697E-01	3.8706E-01	1.8183E+00	-8.2681E-08
4.2000E-01	5.5500E+00	-5.2294E-07	-4.2109E-03	-1.1493E-01	3.8648E-01	1.8174E+00	-7.7603E-08
4.2500E-01	5.5500E+00	-5.1618E-07	-4.1437E-03	-1.1290E-01	3.8591E-01	1.8166E+00	-7.2458E-08
4.3000E-01	5.5500E+00	-5.0938E-07	-4.0766E-03	-1.1088E-01	3.8535E-01	1.8158E+00	-6.7338E-08
4.3500E-01	5.5500E+00	-5.0254E-07	-4.0096E-03	-1.0888E-01	3.8480E-01	1.8150E+00	-6.2652E-08
4.4000E-01	5.5500E+00	-4.9566E-07	-3.9427E-03	-1.0689E-01	3.8426E-01	1.8144E+00	-5.8157E-08
4.4500E-01	5.5500E+00	-4.8874E-07	-3.8759E-03	-1.0491E-01	3.8373E-01	1.8137E+00	-5.3593E-08
4.5000E-01	5.5500E+00	-4.8178E-07	-3.8095E-03	-1.0295E-01	3.8321E-01	1.8131E+00	-4.9147E-08
4.5500E-01	5.5500E+00	-4.7478E-07	-3.7432E-03	-1.0101E-01	3.8270E-01	1.8125E+00	-4.4769E-08
4.6000E-01	5.5500E+00	-4.6774E-07	-3.6774E-03	-9.9087E-02	3.8220E-01	1.8119E+00	-4.0461E-08
4.6500E-01	5.5500E+00	-4.6066E-07	-3.6118E-03	-9.7176E-02	3.8171E-01	1.8114E+00	-3.6233E-08
4.7000E-01	5.5500E+00	-4.5354E-07	-3.5467E-03	-9.5290E-02	3.8123E-01	1.8108E+00	-3.2135E-08
4.7500E-01	5.5500E+00	-4.4638E-07	-3.4820E-03	-9.3419E-02	3.8076E-01	1.8104E+00	-2.8131E-08
4.8000E-01	5.5500E+00	-4.3918E-07	-3.4178E-03	-9.1569E-02	3.8029E-01	1.8099E+00	-2.4218E-08
4.8500E-01	5.5500E+00	-4.3194E-07	-3.3541E-03	-8.9739E-02	3.7984E-01	1.8095E+00	-2.0498E-08
4.9000E-01	5.5500E+00	-4.2466E-07	-3.2909E-03	-8.7930E-02	3.7940E-01	1.8090E+00	-1.6998E-08
4.9500E-01	5.5500E+00	-4.1734E-07	-3.2282E-03	-8.6141E-02	3.7896E-01	1.8087E+00	-1.3631E-08
5.0000E-01	5.5500E+00	-4.1000E-07	-3.1660E-03	-8.4374E-02	3.7853E-01	1.8083E+00	-1.0425E-08

ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	2.7800E+03	1.0490E+06	2.5600E+10	7.4400E+01	1.7140E+00
1.6280E+02	2.1589E-10	3.3566E+03	2.7800E+01	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
2.4000E+00	4.7700E-01	3.6500E-08	2.0000E+01	5.6611E-01	1.7000E+08	8.2600E+01	5.6000E+01
4.3280E-01	0.0000E+00	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
1.0000E-05	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
1.0000E-03	1.1864E-09	8.2299E-07	2.5494E-02	4.3712E+00	7.1161E+02	3.4521E+01	4.2226E+03
1.0000E-02	1.3068E-09	7.3996E-07	2.6326E-02	4.8465E+00	7.8137E+02	1.0439E+02	4.7529E+03
1.5000E-02	1.3737E-09	6.6514E-07	2.7035E-02	4.7779E+00	7.8415E+02	1.0607E+02	5.8505E+03
2.0000E-02	1.4045E-09	6.2994E-07	2.7221E-02	4.6672E+00	7.6405E+02	6.4123E+01	6.5533E+03
2.5000E-02	1.4129E-09	6.2138E-07	2.6931E-02	4.5908E+00	7.4904E+02	6.6796E+01	6.8798E+03
3.0000E-02	1.4082E-09	6.2529E-07	2.6762E-02	4.5370E+00	7.4142E+02	5.6528E+01	6.9499E+03
3.5000E-02	1.3960E-09	6.3112E-07	2.6644E-02	4.5361E+00	7.3866E+02	5.1246E+01	6.8953E+03
4.0000E-02	1.3824E-09	6.4074E-07	2.6580E-02	4.5497E+00	7.3890E+02	4.8334E+01	6.7798E+03
4.5000E-02	1.3444E-09	6.4690E-07	2.6557E-02	4.5497E+00	7.4022E+02	4.8353E+01	6.6420E+03
5.0000E-02	1.3268E-09	6.5153E-07	2.6583E-02	4.5588E+00	7.4182E+02	4.4628E+01	6.4999E+03
6.0000E-02	1.3096E-09	6.5467E-07	2.6589E-02	4.5681E+00	7.4345E+02	4.1772E+01	6.3619E+03
7.0000E-02	1.2935E-09	6.5742E-07	2.6685E-02	4.5770E+00	7.4501E+02	4.3818E+01	6.2012E+03
7.5000E-02	1.2842E-09	6.5895E-07	2.6708E-02	4.5825E+00	7.4643E+02	4.3503E+01	5.9856E+03
8.0000E-02	1.2511E-09	6.6053E-07	2.6750E-02	4.5925E+00	7.4709E+02	4.2589E+01	5.8926E+03
8.5000E-02	1.2388E-09	6.6089E-07	2.6789E-02	4.5988E+00	7.4829E+02	4.2381E+01	5.7972E+03
9.0000E-02	1.2275E-09	6.6115E-07	2.6825E-02	4.6045E+00	7.4934E+02	4.1772E+01	5.6281E+03
1.0000E-01	1.2073E-09	6.6106E-07	2.6910E-02	4.6172E+00	7.5101E+02	4.1766E+01	5.5532E+03
1.0500E-01	1.1898E-09	6.6062E-07	2.6931E-02	4.6202E+00	7.5216E+02	4.1349E+01	5.4841E+03
1.1000E-01	1.1820E-09	6.6035E-07	2.6948E-02	4.6225E+00	7.5237E+02	4.0951E+01	5.3614E+03
1.2000E-01	1.1747E-09	6.6008E-07	2.6973E-02	4.6242E+00	7.5298E+02	4.0793E+01	5.3070E+03
1.2500E-01	1.1679E-09	6.5975E-07	2.6981E-02	4.6248E+00	7.5316E+02	4.0632E+01	5.2566E+03
1.3000E-01	1.1618E-09	6.5942E-07	2.6987E-02	4.6248E+00	7.5328E+02	4.0308E+01	5.1664E+03
1.3500E-01	1.1558E-09	6.5906E-07	2.6990E-02	4.6248E+00	7.5328E+02	4.0146E+01	5.1262E+03
1.4000E-01	1.1503E-09	6.5870E-07	2.6991E-02	4.6248E+00	7.5328E+02	3.9986E+01	5.0888E+03
1.4500E-01	1.1451E-09	6.5833E-07	2.6990E-02	4.6248E+00	7.5328E+02	3.9881E+01	5.0541E+03
1.5000E-01	1.1403E-09	6.5796E-07	2.6987E-02	4.6248E+00	7.5270E+02	3.9620E+01	4.9916E+03
1.6000E-01	1.1357E-09	6.5757E-07	2.6983E-02	4.6232E+00	7.5217E+02	3.9236E+01	4.9636E+03
1.6500E-01	1.1317E-09	6.5716E-07	2.6978E-02	4.6218E+00	7.5172E+02	3.9236E+01	4.9375E+03
1.7000E-01	1.1276E-09	6.5674E-07	2.6971E-02	4.6201E+00	7.5127E+02	3.9236E+01	4.9132E+03
1.7500E-01	1.1206E-09	6.5632E-07	2.6962E-02	4.6183E+00	7.5072E+02	3.9236E+01	4.8902E+03
1.8000E-01	1.1173E-09	6.5593E-07	2.6953E-02	4.6165E+00	7.5026E+02	3.9163E+01	4.8692E+03
1.8500E-01	1.1143E-09	6.5512E-07	2.6943E-02	4.6145E+00	7.5134E+02	3.8056E+01	4.8494E+03
1.9000E-01	1.1114E-09	6.5470E-07	2.6932E-02	4.6123E+00	7.5097E+02	3.8950E+01	4.8308E+03
1.9500E-01	1.1087E-09	6.5427E-07	2.6908E-02	4.6077E+00	7.5077E+02	3.8847E+01	4.8135E+03
2.0000E-01	1.1061E-09	6.5393E-07	2.6895E-02	4.6053E+00	7.5018E+02	3.8646E+01	4.7973E+03
2.0500E-01	1.1037E-09	6.5340E-07	2.6882E-02	4.6028E+00	7.4954E+02	3.8676E+01	4.7823E+03
2.1000E-01	1.1015E-09	6.5301E-07	2.6868E-02	4.6004E+00	7.4910E+02	3.8676E+01	4.7681E+03
2.1500E-01	1.0993E-09	6.5261E-07	2.6854E-02	4.5976E+00	7.4865E+02	3.8590E+01	4.7547E+03
2.2000E-01	1.0973E-09	6.5220E-07	2.6839E-02	4.5946E+00	7.4819E+02	3.8505E+01	4.7421E+03
2.2500E-01	1.0954E-09	6.5176E-07	2.6824E-02	4.5926E+00	7.4773E+02	3.8421E+01	4.7304E+03
2.3000E-01	1.0936E-09	6.5135E-07	2.6809E-02	4.5899E+00	7.4726E+02	3.8340E+01	4.7093E+03

2.3500E-01	1.0919E-09	6.5090E-07	2.6794E-02	4.5871E+00	7.4679E+02	3.8261E+01	4.6897E+03
2.4000E-01	1.0903E-09	6.5051E-07	2.6778E-02	4.5844E+00	7.4655E+02	3.8423E+01	4.6907E+03
1.0886E-09	1.0886E-09	6.5013E-07	2.6763E-02	4.5817E+00	7.4630E+02	3.8549E+01	4.6821E+03
2.5000E-01	1.0873E-09	6.4974E-07	2.6747E-02	4.5780E+00	7.4559E+02	3.8208E+01	4.6655E+03
1.0859E-09	1.0859E-09	6.4935E-07	2.6731E-02	4.5743E+00	7.4488E+02	3.8141E+01	4.6595E+03
2.6000E-01	1.0846E-09	6.4894E-07	2.6715E-02	4.5705E+00	7.4418E+02	3.8076E+01	4.6530E+03
2.6500E-01	1.0834E-09	6.4853E-07	2.6699E-02	4.5668E+00	7.4348E+02	3.8013E+01	4.6469E+03
2.7000E-01	1.0822E-09	6.4811E-07	2.6683E-02	4.5630E+00	7.4278E+02	3.8190E+01	4.6410E+03
2.7500E-01	1.0811E-09	6.4770E-07	2.6667E-02	4.5593E+00	7.4208E+02	3.8130E+01	4.6355E+03
2.8000E-01	1.0800E-09	6.4729E-07	2.6652E-02	4.5555E+00	7.4138E+02	3.8072E+01	4.6295E+03
2.8500E-01	1.0791E-09	6.4688E-07	2.6636E-02	4.5517E+00	7.4068E+02	3.8015E+01	4.6235E+03
2.9000E-01	1.0781E-09	6.4647E-07	2.6620E-02	4.5479E+00	7.3998E+02	3.7957E+01	4.6175E+03
2.9500E-01	1.0772E-09	6.4606E-07	2.6604E-02	4.5441E+00	7.3928E+02	3.7900E+01	4.6115E+03
3.0000E-01	1.0764E-09	6.4565E-07	2.6588E-02	4.5403E+00	7.3858E+02	3.7842E+01	4.6055E+03
3.0500E-01	1.0756E-09	6.4524E-07	2.6572E-02	4.5365E+00	7.3788E+02	3.7784E+01	4.5995E+03
3.1000E-01	1.0748E-09	6.4483E-07	2.6556E-02	4.5327E+00	7.3718E+02	3.7726E+01	4.5935E+03
3.1500E-01	1.0741E-09	6.4442E-07	2.6540E-02	4.5289E+00	7.3648E+02	3.7668E+01	4.5875E+03
3.2000E-01	1.0734E-09	6.4401E-07	2.6524E-02	4.5251E+00	7.3578E+02	3.7610E+01	4.5815E+03
3.2500E-01	1.0727E-09	6.4360E-07	2.6508E-02	4.5213E+00	7.3508E+02	3.7552E+01	4.5755E+03
3.3000E-01	1.0721E-09	6.4319E-07	2.6492E-02	4.5175E+00	7.3438E+02	3.7494E+01	4.5695E+03
3.3500E-01	1.0715E-09	6.4278E-07	2.6476E-02	4.5137E+00	7.3368E+02	3.7436E+01	4.5635E+03
3.4000E-01	1.0709E-09	6.4237E-07	2.6460E-02	4.5099E+00	7.3298E+02	3.7378E+01	4.5575E+03
3.4500E-01	1.0704E-09	6.4196E-07	2.6444E-02	4.5061E+00	7.3228E+02	3.7320E+01	4.5515E+03
3.5000E-01	1.0699E-09	6.4155E-07	2.6428E-02	4.5023E+00	7.3158E+02	3.7262E+01	4.5455E+03
3.5500E-01	1.0694E-09	6.4114E-07	2.6412E-02	4.4985E+00	7.3088E+02	3.7204E+01	4.5395E+03
3.6000E-01	1.0689E-09	6.4073E-07	2.6396E-02	4.4947E+00	7.3018E+02	3.7146E+01	4.5335E+03
3.6500E-01	1.0685E-09	6.4032E-07	2.6380E-02	4.4909E+00	7.2948E+02	3.7088E+01	4.5275E+03
3.7000E-01	1.0681E-09	6.4033E-07	2.6364E-02	4.4871E+00	7.2878E+02	3.7030E+01	4.5215E+03
3.7500E-01	1.0677E-09	6.4033E-07	2.6348E-02	4.4833E+00	7.2808E+02	3.6972E+01	4.5155E+03
3.8000E-01	1.0673E-09	6.4079E-07	2.6332E-02	4.4795E+00	7.2738E+02	3.6914E+01	4.5095E+03
3.8500E-01	1.0670E-09	6.4053E-07	2.6316E-02	4.4757E+00	7.2668E+02	3.6856E+01	4.5035E+03
3.9000E-01	1.0666E-09	6.4026E-07	2.6300E-02	4.4719E+00	7.2598E+02	3.6798E+01	4.4975E+03
3.9500E-01	1.0663E-09	6.3998E-07	2.6284E-02	4.4681E+00	7.2528E+02	3.6740E+01	4.4915E+03
4.0000E-01	1.0660E-09	6.3970E-07	2.6268E-02	4.4643E+00	7.2458E+02	3.6682E+01	4.4855E+03
4.0500E-01	1.0658E-09	6.3942E-07	2.6252E-02	4.4605E+00	7.2388E+02	3.6624E+01	4.4795E+03
4.1000E-01	1.0655E-09	6.3915E-07	2.6236E-02	4.4567E+00	7.2318E+02	3.6566E+01	4.4735E+03
4.1500E-01	1.0653E-09	6.3898E-07	2.6220E-02	4.4529E+00	7.2248E+02	3.6508E+01	4.4675E+03
4.2000E-01	1.0650E-09	6.3872E-07	2.6204E-02	4.4491E+00	7.2178E+02	3.6450E+01	4.4615E+03
4.2500E-01	1.0648E-09	6.3848E-07	2.6188E-02	4.4453E+00	7.2108E+02	3.6392E+01	4.4555E+03
4.3000E-01	1.0646E-09	6.3824E-07	2.6172E-02	4.4415E+00	7.2038E+02	3.6334E+01	4.4495E+03
4.3500E-01	1.0644E-09	6.3800E-07	2.6156E-02	4.4377E+00	7.1968E+02	3.6276E+01	4.4435E+03
4.4000E-01	1.0642E-09	6.3775E-07	2.6140E-02	4.4339E+00	7.1898E+02	3.6218E+01	4.4375E+03
4.4500E-01	1.0641E-09	6.3756E-07	2.6124E-02	4.4301E+00	7.1828E+02	3.6160E+01	4.4315E+03
4.5000E-01	1.0639E-09	6.3736E-07	2.6108E-02	4.4263E+00	7.1758E+02	3.6102E+01	4.4255E+03
4.5500E-01	1.0637E-09	6.3715E-07	2.6116E-02	4.4225E+00	7.1688E+02	3.6044E+01	4.4195E+03
4.6000E-01	1.0636E-09	6.3694E-07	2.6116E-02	4.4187E+00	7.1618E+02	3.5986E+01	4.4135E+03
4.6500E-01	1.0635E-09	6.3673E-07	2.6116E-02	4.4149E+00	7.1548E+02	3.5928E+01	4.4075E+03
4.7000E-01	1.0634E-09	6.3651E-07	2.6117E-02	4.4111E+00	7.1478E+02	3.5870E+01	4.4015E+03
4.7500E-01	1.0633E-09	6.3632E-07	2.6117E-02	4.4073E+00	7.1408E+02	3.5812E+01	4.3955E+03
4.8000E-01	1.0632E-09	6.3614E-07	2.6118E-02	4.4035E+00	7.1338E+02	3.5754E+01	4.3895E+03
4.8500E-01	1.0631E-09	6.3597E-07	2.6120E-02	4.4035E+00	7.1268E+02	3.5696E+01	4.3835E+03
4.9000E-01	1.0631E-09	6.3579E-07	2.6120E-02	4.4035E+00	7.1198E+02	3.5638E+01	4.3775E+03
4.9500E-01	1.0630E-09	6.3561E-07	2.6112E-02	4.4035E+00	7.1128E+02	3.5580E+01	4.3715E+03
5.0000E-01	1.0628E-09	6.3543E-07	2.6103E-02	4.4035E+00	7.1058E+02	3.5522E+01	4.3655E+03

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
1.0000E-05	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.000E+00	1.6940E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.6280E-02	2.1589E-10	3.3566E+03	2.7800E+01	1.7760E-02	2.5500E-10	6.3283E-09	1.8500E-06
4.4000E-00	2.4000E-06	3.6500E-06	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E+01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	0.0000E+00						
0.0000E+00							
5.0000E-03	4.1795E-01	4.0535E+01	1.0115E-05	1.0000E+01	3.5080E-07	7.6285E-06	1.3147E-06
1.0000E-02	7.4868E+00	4.0542E+01	1.0116E-05	1.0000E+01	-3.1678E-06	7.6233E-06	-7.3489E-07
1.0000E-02	3.151E+01	4.0622E+01	1.0117E-05	1.0000E+01	-3.0753E-06	7.6056E-06	-8.4081E-07
2.0000E-02	3.8799E+01	4.0770E+01	1.0119E-05	1.0000E+01	-1.8759E-06	7.5937E-06	-2.3098E-07
2.5000E-02	3.9816E+01	4.0954E+01	1.0122E-05	1.0000E+01	-1.0258E-06	7.5866E-06	2.5717E-07
3.0000E-02	3.9909E+01	4.1152E+01	1.0127E-05	1.0000E+01	-6.1231E-07	7.5824E-06	5.3204E-07
3.5000E-02	3.7118E+01	4.1349E+01	1.0134E-05	1.0000E+01	-4.8084E-07	7.5797E-06	6.5403E-07
4.0000E-02	3.5010E+01	4.1720E+01	1.0142E-05	1.0000E+01	-4.6986E-07	7.5772E-06	6.8463E-07
4.5000E-02	3.2852E+01	4.1890E+01	1.0152E-05	1.0000E+01	-5.4799E-07	7.5716E-06	6.4563E-07
5.0000E-02	3.0758E+01	4.2049E+01	1.0175E-05	1.0000E+01	-6.4705E-07	7.5681E-06	6.4563E-07
5.5000E-02	2.8778E+01	4.2198E+01	1.0188E-05	1.0000E+01	-7.6054E-07	7.5681E-06	5.8992E-07
6.0000E-02	2.6928E+01	4.2337E+01	1.0202E-05	1.0000E+01	-8.7809E-07	7.5640E-06	5.2728E-07
6.5000E-02	2.5210E+01	4.2467E+01	1.0216E-05	1.0000E+01	-9.8091E-07	7.5594E-06	4.6324E-07
7.0000E-02	2.3622E+01	4.2589E+01	1.0231E-05	1.0000E+01	-1.0795E-06	7.5543E-06	4.0102E-07
7.5000E-02	2.2156E+01	4.2703E+01	1.0247E-05	1.0000E+01	-1.1363E-06	7.5489E-06	3.6055E-07
8.0000E-02	2.0804E+01	4.2811E+01	1.0263E-05	1.0000E+01	-1.2194E-06	7.5429E-06	3.0484E-07
8.5000E-02	1.9494E+01	4.2912E+01	1.0279E-05	1.0000E+01	-1.2931E-06	7.5365E-06	2.5457E-07
9.0000E-02	1.8372E+01	4.3006E+01	1.0296E-05	1.0000E+01	-1.3577E-06	7.5296E-06	2.0990E-07
9.5000E-02	1.7295E+01	4.3095E+01	1.0313E-05	1.0000E+01	-1.4138E-06	7.5229E-06	1.7108E-07
1.0000E-01	1.6274E+01	4.3178E+01	1.0347E-05	1.0000E+01	-1.4615E-06	7.5159E-06	1.3766E-07
1.0000E-01	1.5335E+01	4.3258E+01	1.0382E-05	1.0000E+01	-1.5021E-06	7.5084E-06	1.0945E-07
1.0000E-01	1.4460E+01	4.3338E+01	1.0417E-05	1.0000E+01	-1.5261E-06	7.5008E-06	7.1453E-08
1.2500E-01	1.3643E+01	4.3403E+01	1.0392E-05	1.0000E+01	-1.5806E-06	7.4857E-06	5.5460E-08
1.5000E-01	1.2879E+01	4.3469E+01	1.0399E-05	1.0000E+01	-1.5997E-06	7.4775E-06	4.3276E-08
1.7500E-01	1.2184E+01	4.3532E+01	1.0417E-05	1.0000E+01	-1.6140E-06	7.4692E-06	3.4526E-08
2.0000E-01	1.1494E+01	4.3591E+01	1.0434E-05	1.0000E+01	-1.6201E-06	7.4611E-06	2.8854E-08
2.2500E-01	1.0868E+01	4.3647E+01	1.0451E-05	1.0000E+01	-1.6301E-06	7.4530E-06	2.5328E-08
2.5000E-01	1.0279E+01	4.3700E+01	1.0468E-05	1.0000E+01	-1.6355E-06	7.4448E-06	2.3913E-08
2.7500E-01	9.7206E+00	4.3750E+01	1.0485E-05	1.0000E+01	-1.6362E-06	7.4367E-06	2.4890E-08
3.0000E-01	9.2069E+00	4.3797E+01	1.0501E-05	1.0000E+01	-1.6340E-06	7.4285E-06	2.7633E-08
3.2500E-01	8.7184E+00	4.3842E+01	1.0518E-05	1.0000E+01	-1.6291E-06	7.4203E-06	3.2507E-08
3.5000E-01	8.2589E+00	4.3884E+01	1.0534E-05	1.0000E+01	-1.6218E-06	7.4122E-06	3.8701E-08
3.7500E-01	7.8266E+00	4.3925E+01	1.0550E-05	1.0000E+01	-1.6124E-06	7.4041E-06	4.6224E-08
4.0000E-01	7.4191E+00	4.3963E+01	1.0566E-05	1.0000E+01	-1.6093E-06	7.3960E-06	5.0296E-08
4.2500E-01	7.0323E+00	4.3996E+01	1.0582E-05	1.0000E+01	-1.5970E-06	7.3880E-06	5.9607E-08
4.5000E-01	6.6673E+00	4.4023E+01	1.0597E-05	1.0000E+01	-1.5831E-06	7.3801E-06	6.9828E-08
4.7500E-01	6.3265E+00	4.4056E+01	1.0612E-05	1.0000E+01	-1.5678E-06	7.3722E-06	8.0837E-08
5.0000E-01	6.0093E+00	4.4096E+01	1.0627E-05	1.0000E+01	-1.5512E-06	7.3644E-06	9.2525E-08
5.2500E-01	5.7188E+00	4.4135E+01	1.0642E-05	1.0000E+01	-1.5335E-06	7.3567E-06	1.0475E-07
5.5000E-01	5.4521E+00	4.4179E+01	1.0656E-05	1.0000E+01	-1.5148E-06	7.3491E-06	1.1756E-07
5.7500E-01	5.2097E+00	4.4204E+01	1.0670E-05	1.0000E+01	-1.5066E-06	7.3415E-06	1.2441E-07
6.0000E-01	4.9879E+00	4.4228E+01	1.0684E-05	1.0000E+01	-1.4866E-06	7.3341E-06	1.3777E-07
6.2500E-01	4.7859E+00	4.4246E+01	1.0697E-05	1.0000E+01	-1.4655E-06	7.3267E-06	1.5144E-07
6.5000E-01	4.6020E+00	4.4251E+01	1.0710E-05	1.0000E+01	-1.4427E-06	7.3194E-06	1.6537E-07
6.7500E-01	4.4370E+00	4.4272E+01	1.0723E-05	1.0000E+01	-1.4228E-06	7.3122E-06	1.7951E-07
7.0000E-01	4.2921E+00	4.4292E+01	1.0736E-05	1.0000E+01	-1.4006E-06	7.3052E-06	1.9380E-07

2.3500E-01	3.7299E+00	4.4311E+01	1.0748E-05	1.0000E+01	-1.3780E-06	7.2982E-06	2.0823E-07
2.4000E-01	3.5354E+00	4.4329E+01	1.0760E-05	1.0000E+01	-1.3675E-06	7.2913E-06	2.1580E-07
2.4500E-01	3.3490E+00	4.4347E+01	1.0772E-05	1.0000E+01	-1.3445E-06	7.2846E-06	2.3031E-07
2.5000E-01	3.1720E+00	4.4365E+01	1.0783E-05	1.0000E+01	-1.3212E-06	7.2779E-06	2.4486E-07
2.5500E-01	3.0039E+00	4.4383E+01	1.0795E-05	1.0000E+01	-1.2978E-06	7.2714E-06	2.5943E-07
2.6000E-01	2.8440E+00	4.4401E+01	1.0806E-05	1.0000E+01	-1.2743E-06	7.2649E-06	2.7399E-07
2.6500E-01	2.6923E+00	4.4419E+01	1.0818E-05	1.0000E+01	-1.2506E-06	7.2586E-06	2.8853E-07
2.7000E-01	2.5487E+00	4.4437E+01	1.0837E-05	1.0000E+01	-1.2270E-06	7.2524E-06	3.0302E-07
2.7500E-01	2.4074E+00	4.4455E+01	1.0847E-05	1.0000E+01	-1.2035E-06	7.2463E-06	3.1050E-07
2.8000E-01	2.2729E+00	4.4473E+01	1.0856E-05	1.0000E+01	-1.1922E-06	7.2403E-06	3.2485E-07
2.8500E-01	2.0234E+00	4.4491E+01	1.0866E-05	1.0000E+01	-1.1451E-06	7.2386E-06	3.3912E-07
2.9000E-01	1.8078E+00	4.4509E+01	1.0875E-05	1.0000E+01	-1.1217E-06	7.2386E-06	3.5329E-07
2.9500E-01	1.7979E+00	4.4527E+01	1.0884E-05	1.0000E+01	-1.1084E-06	7.2229E-06	3.6739E-07
3.0000E-01	1.6930E+00	4.4545E+01	1.0893E-05	1.0000E+01	-1.0942E-06	7.2174E-06	3.8129E-07
3.1000E-01	1.5896E+00	4.4563E+01	1.0901E-05	1.0000E+01	-1.0822E-06	7.2119E-06	3.8846E-07
3.1500E-01	1.4913E+00	4.4581E+01	1.0909E-05	1.0000E+01	-1.0742E-06	7.2065E-06	4.0217E-07
3.2000E-01	1.3978E+00	4.4599E+01	1.0917E-05	1.0000E+01	-1.0414E-06	7.2013E-06	4.1574E-07
3.2500E-01	1.3089E+00	4.4617E+01	1.0925E-05	1.0000E+01	-9.9626E-07	7.1982E-06	4.2917E-07
3.3000E-01	1.2244E+00	4.4635E+01	1.0932E-05	1.0000E+01	-9.5204E-07	7.1911E-06	4.4244E-07
3.4000E-01	1.1443E+00	4.4653E+01	1.0941E-05	1.0000E+01	-9.4141E-07	7.1813E-06	4.5556E-07
3.4500E-01	9.9056E-01	4.4671E+01	1.0949E-05	1.0000E+01	-9.1983E-07	7.1720E-06	4.6879E-07
3.5000E-01	8.1876E-01	4.4689E+01	1.0958E-05	1.0000E+01	-8.9850E-07	7.1674E-06	4.8002E-07
3.5500E-01	6.4943E-01	4.4707E+01	1.0967E-05	1.0000E+01	-8.7745E-07	7.1630E-06	4.9126E-07
3.6000E-01	7.8451E-01	4.4725E+01	1.0973E-05	1.0000E+01	-8.5687E-07	7.1587E-06	5.0288E-07
3.6500E-01	7.2277E-01	4.4743E+01	1.0979E-05	1.0000E+01	-8.3617E-07	7.1544E-06	5.1760E-07
3.7000E-01	6.6427E-01	4.4761E+01	1.0985E-05	1.0000E+01	-8.1596E-07	7.1503E-06	5.3671E-07
3.7500E-01	6.0663E-01	4.4779E+01	1.0991E-05	1.0000E+01	-8.0813E-07	7.1462E-06	5.4848E-07
3.8000E-01	5.5089E-01	4.4797E+01	1.0996E-05	1.0000E+01	-7.8640E-07	7.1423E-06	5.5477E-07
3.8500E-01	4.9770E-01	4.4815E+01	1.1002E-05	1.0000E+01	-7.6697E-07	7.1384E-06	5.7234E-07
3.9000E-01	4.4754E-01	4.4833E+01	1.1007E-05	1.0000E+01	-7.4783E-07	7.1345E-06	5.8344E-07
3.9500E-01	4.0009E-01	4.4851E+01	1.1012E-05	1.0000E+01	-7.2901E-07	7.1309E-06	5.9525E-07
4.0000E-01	3.5528E-01	4.4869E+01	1.1017E-05	1.0000E+01	-7.1048E-07	7.1273E-06	6.0898E-07
4.0500E-01	3.1293E-01	4.4887E+01	1.1021E-05	1.0000E+01	-6.9227E-07	7.1238E-06	6.2052E-07
4.1000E-01	2.7021E-01	4.4905E+01	1.1026E-05	1.0000E+01	-6.8338E-07	7.1203E-06	6.2866E-07
4.1500E-01	2.2949E-01	4.4923E+01	1.1030E-05	1.0000E+01	-6.8567E-07	7.1170E-06	6.3509E-07
4.2000E-01	1.9106E-01	4.4941E+01	1.1034E-05	1.0000E+01	-6.4317E-07	7.1137E-06	6.4614E-07
4.2500E-01	1.5485E-01	4.4959E+01	1.1038E-05	1.0000E+01	-6.3179E-07	7.1105E-06	6.5601E-07
4.3000E-01	1.2078E-01	4.4977E+01	1.1042E-05	1.0000E+01	-6.1439E-07	7.1074E-06	6.6568E-07
4.3500E-01	8.8715E-02	4.4995E+01	1.1046E-05	1.0000E+01	-5.9791E-07	7.1043E-06	6.7518E-07
4.4000E-01	5.8266E-02	4.5013E+01	1.1050E-05	1.0000E+01	-5.7981E-07	7.1014E-06	6.8000E-07
4.4500E-01	2.7247E-02	4.5031E+01	1.1053E-05	1.0000E+01	-5.7363E-07	7.0985E-06	6.8920E-07
4.5000E-01	-1.6829E-03	4.5049E+01	1.1057E-05	1.0000E+01	-5.5816E-07	7.0956E-06	6.9821E-07
4.5500E-01	-2.9199E-03	4.5067E+01	1.1060E-05	1.0000E+01	-5.4279E-07	7.0929E-06	7.0705E-07
4.6000E-01	-5.4774E-02	4.5085E+01	1.1063E-05	1.0000E+01	-5.2772E-07	7.0902E-06	7.1571E-07
4.6500E-01	7.8691E-02	4.5103E+01	1.1066E-05	1.0000E+01	-5.1296E-07	7.0876E-06	7.2419E-07
4.7000E-01	-1.0099E-01	4.5121E+01	1.1069E-05	1.0000E+01	-4.9849E-07	7.0851E-06	7.3250E-07
4.7500E-01	-1.2289E-01	4.5139E+01	1.1072E-05	1.0000E+01	-4.9136E-07	7.0826E-06	7.3671E-07
4.8000E-01	-1.4424E-01	4.5157E+01	1.1075E-05	1.0000E+01	-4.7737E-07	7.0802E-06	7.4474E-07
4.8500E-01	-1.6466E-01	4.5175E+01	1.1077E-05	1.0000E+01	-4.6367E-07	7.0778E-06	7.5259E-07
4.9000E-01	-1.8347E-01	4.5193E+01	1.1080E-05	1.0000E+01	-4.5025E-07	7.0756E-06	7.6028E-07
4.9500E-01	-2.0090E-01	4.5211E+01	1.1082E-05	1.0000E+01	-4.3712E-07	7.0733E-06	7.6786E-07
5.0000E-01	-2.1703E-01	4.5229E+01	1.1085E-05	1.0000E+01	-4.2427E-07	7.0712E-06	7.7516E-07



ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE	27 VARIABLE	28 VARIABLE
1.0000E-05	7.454E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.630E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+06	2.8600E+01	7.4400E+01	7.0081E+02
1.8280E-02	2.1989E-10	3.3586E+03	2.7800E+01	1.7760E-02	2.5500E-10	8.3283E-09	1.2140E+00
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E+01	1.8500E-06
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	5.6000E+01
0.0000E+00	0.0000E+00					7.2259E+00	7.2259E+00
.....	.....	.....	.....	.....	.....	.....	.....
1.0000E+00	7.243E+00	1.5285E+02	2.5963E+02	8.7669E+02	3.5600E+03	1.2457E+00	7.0081E+02
5.0000E-03	1.9789E+00	1.5139E+02	2.5963E+02	8.7669E+02	3.5600E+03	1.3150E+00	7.3167E+02
1.0000E-02	6.7589E-01	6.0730E+01	2.5960E+02	8.7608E+02	3.5600E+03	1.4669E+00	7.3459E+02
1.5000E-02	1.1797E-01	1.1097E+01	2.5937E+02	8.8224E+02	3.5600E+03	1.5762E+00	7.2773E+02
2.0000E-02	1.0970E-01	3.9772E+00	2.5908E+02	8.8479E+02	3.5600E+03	1.6400E+00	7.2301E+02
3.0000E-02	2.5103E-01	1.7201E+01	2.5879E+02	8.8741E+02	3.5600E+03	1.6727E+00	7.2139E+02
3.5000E-02	6.9408E-01	3.5142E+01	2.5855E+02	8.9002E+02	3.5600E+03	1.6872E+00	7.2139E+02
4.0000E-02	1.0712E+00	5.6248E+01	2.5816E+02	8.9255E+02	3.5600E+03	1.6917E+00	7.2317E+02
5.0000E-02	1.2006E+00	6.7117E+01	2.5801E+02	8.9494E+02	3.5600E+03	1.6909E+00	7.2483E+02
5.0000E-02	1.1827E+00	6.6894E+01	2.5788E+02	8.9719E+02	3.5600E+03	1.6818E+00	7.2674E+02
6.0000E-02	1.1290E+00	6.3177E+01	2.5772E+02	8.9927E+02	3.5600E+03	1.6753E+00	7.2866E+02
6.0000E-02	1.0316E+00	5.9100E+01	2.5758E+02	7.0119E+02	3.5600E+03	1.6681E+00	7.3050E+02
7.0000E-02	9.5867E-01	5.6399E+01	2.5726E+02	7.0450E+02	3.5600E+03	1.6604E+00	7.3274E+02
8.0000E-02	8.6048E-01	4.5081E+01	2.5708E+02	7.0716E+02	3.5600E+03	1.6524E+00	7.3576E+02
9.0000E-02	8.251E-01	3.8533E+01	2.5689E+02	7.0927E+02	3.5600E+03	1.6442E+00	7.3488E+02
9.0000E-02	5.7038E-01	2.7653E+01	2.5669E+02	7.1142E+02	3.5600E+03	1.6356E+00	7.3614E+02
9.0000E-02	4.8535E-01	2.2854E+01	2.5648E+02	7.1294E+02	3.5600E+03	1.6273E+00	7.3724E+02
1.0000E-01	4.0838E-01	1.9295E+01	2.5625E+02	7.142E+02	3.5600E+03	1.6187E+00	7.3902E+02
1.0500E-01	3.3970E-01	1.6954E+01	2.5577E+02	7.153E+02	3.5600E+03	1.6101E+00	7.3971E+02
1.1000E-01	2.7962E-01	1.6954E+01	2.5515E+02	7.162E+02	3.5600E+03	1.6015E+00	7.4028E+02
1.2000E-01	2.2809E-01	1.3654E+01	2.5452E+02	7.1735E+02	3.5600E+03	1.5846E+00	7.4104E+02
1.2500E-01	1.8473E-01	1.0894E+01	2.5405E+02	7.1889E+02	3.5600E+03	1.5782E+00	7.4133E+02
1.3000E-01	1.4904E-01	8.6412E+00	2.5402E+02	7.1994E+02	3.5600E+03	1.5680E+00	7.4154E+02
1.3500E-01	1.2045E-01	6.8602E+00	2.5443E+02	7.2133E+02	3.5600E+03	1.5599E+00	7.4166E+02
1.4000E-01	9.8407E-02	5.5108E+00	2.5414E+02	7.225E+02	3.5600E+03	1.5519E+00	7.4172E+02
1.4500E-01	7.2797E-02	4.9654E+00	2.5386E+02	7.232E+02	3.5600E+03	1.5441E+00	7.4172E+02
1.5000E-01	6.8112E-02	4.2082E+00	2.5357E+02	7.233E+02	3.5600E+03	1.5384E+00	7.4168E+02
1.5000E-01	6.4790E-02	3.6156E+00	2.5300E+02	7.2329E+02	3.5600E+03	1.5290E+00	7.4158E+02
1.6000E-01	6.7341E-02	3.2797E+00	2.5271E+02	7.231E+02	3.5600E+03	1.5217E+00	7.4144E+02
1.6000E-01	6.3314E-02	4.0749E+00	2.5242E+02	7.2294E+02	3.5600E+03	1.5146E+00	7.4125E+02
1.7000E-01	6.2338E-02	4.3252E+00	2.5214E+02	7.2294E+02	3.5600E+03	1.5077E+00	7.4102E+02
1.7500E-01	9.4312E-02	4.9648E+00	2.5186E+02	7.2294E+02	3.5600E+03	1.4945E+00	7.4055E+02
1.8000E-01	1.0865E-01	5.7689E+00	2.5157E+02	7.229E+02	3.5600E+03	1.4881E+00	7.4024E+02
1.9000E-01	1.3200E-01	6.7187E+00	2.5130E+02	7.229E+02	3.5600E+03	1.4815E+00	7.3990E+02
2.0000E-01	1.6290E-01	7.7919E+00	2.5102E+02	7.229E+02	3.5600E+03	1.4760E+00	7.3955E+02
2.0500E-01	1.8391E-01	8.9724E+00	2.5075E+02	7.229E+02	3.5600E+03	1.4702E+00	7.3918E+02
2.1000E-01	2.0621E-01	1.0245E+01	2.5047E+02	7.229E+02	3.5600E+03	1.4646E+00	7.3879E+02
2.1500E-01	2.2974E-01	1.2298E+01	2.5021E+02	7.229E+02	3.5600E+03	1.4593E+00	7.3838E+02
2.2000E-01	2.5410E-01	1.4745E+01	2.4994E+02	7.229E+02	3.5600E+03	1.4541E+00	7.3806E+02
2.2500E-01	2.7915E-01	1.7445E+01	2.4968E+02	7.229E+02	3.5600E+03	1.4490E+00	7.3764E+02
2.3000E-01	3.0475E-01	2.0445E+01	2.4942E+02	7.229E+02	3.5600E+03	1.4442E+00	7.3720E+02
2.3500E-01	3.3081E-01	2.3892E+01	2.4917E+02	7.229E+02	3.5600E+03	1.4395E+00	7.3676E+02
2.4000E-01	3.5781E-01	2.7892E+01	2.4892E+02	7.229E+02	3.5600E+03	1.4350E+00	7.3631E+02
2.4500E-01	3.8581E-01	3.2489E+01	2.4867E+02	7.229E+02	3.5600E+03	1.4307E+00	7.3586E+02

2.3500E-01	1.9971E+01	2.4667E+02	7.0853E+02	3.5600E+03	1.4266E+00	7.3540E+02
2.4000E-01	2.0784E+01	2.4843E+02	7.0812E+02	3.5600E+03	1.4225E+00	7.3504E+02
2.4500E-01	2.2423E+01	2.4819E+02	7.0772E+02	3.5600E+03	1.4187E+00	7.3457E+02
2.5000E-01	2.4077E+01	2.4796E+02	7.0731E+02	3.5600E+03	1.4150E+00	7.3411E+02
2.5500E-01	2.5742E+01	2.4750E+02	7.0690E+02	3.5600E+03	1.4114E+00	7.3364E+02
2.6000E-01	2.7414E+01	2.4705E+02	7.0649E+02	3.5600E+03	1.4080E+00	7.3317E+02
2.6500E-01	2.9080E+01	2.4708E+02	7.0607E+02	3.5600E+03	1.4047E+00	7.3270E+02
2.7000E-01	3.0766E+01	2.4708E+02	7.0565E+02	3.5600E+03	1.4016E+00	7.3224E+02
2.7500E-01	3.1604E+01	2.4685E+02	7.0524E+02	3.5600E+03	1.3986E+00	7.3188E+02
2.8000E-01	3.277E+01	2.4643E+02	7.0481E+02	3.5600E+03	1.3957E+00	7.3141E+02
2.8500E-01	3.4944E+01	2.4623E+02	7.0439E+02	3.5600E+03	1.3929E+00	7.3095E+02
2.9000E-01	3.6604E+01	2.4623E+02	7.0399E+02	3.5600E+03	1.3903E+00	7.3049E+02
2.9500E-01	3.8254E+01	2.4603E+02	7.0358E+02	3.5600E+03	1.3877E+00	7.3004E+02
3.0000E-01	3.9894E+01	2.4583E+02	7.0317E+02	3.5600E+03	1.3853E+00	7.2959E+02
3.0500E-01	4.0710E+01	2.4564E+02	7.0276E+02	3.5600E+03	1.3830E+00	7.2914E+02
3.1000E-01	4.0710E+01	2.4545E+02	7.0235E+02	3.5600E+03	1.3808E+00	7.2879E+02
3.1500E-01	4.2330E+01	2.4525E+02	7.0195E+02	3.5600E+03	1.3786E+00	7.2835E+02
3.2000E-01	4.3937E+01	2.4525E+02	7.0154E+02	3.5600E+03	1.3766E+00	7.2792E+02
3.2500E-01	4.5579E+01	2.4505E+02	7.0115E+02	3.5600E+03	1.3747E+00	7.2748E+02
3.3000E-01	4.6655E+01	2.4491E+02	7.0075E+02	3.5600E+03	1.3729E+00	7.2706E+02
3.3500E-01	4.6683E+01	2.4474E+02	7.0036E+02	3.5600E+03	1.3711E+00	7.2664E+02
3.4000E-01	4.8203E+01	2.4457E+02	6.9997E+02	3.5600E+03	1.3694E+00	7.2631E+02
3.4500E-01	5.0967E+01	2.4441E+02	6.9959E+02	3.5600E+03	1.3678E+00	7.2590E+02
3.5000E-01	5.2486E+01	2.4424E+02	6.9921E+02	3.5600E+03	1.3663E+00	7.2549E+02
3.5500E-01	5.3875E+01	2.4408E+02	6.9884E+02	3.5600E+03	1.3648E+00	7.2508E+02
3.6000E-01	5.5447E+01	2.4393E+02	6.9847E+02	3.5600E+03	1.3635E+00	7.2470E+02
3.6500E-01	5.6901E+01	2.4378E+02	6.9810E+02	3.5600E+03	1.3622E+00	7.2431E+02
3.7000E-01	5.8334E+01	2.4363E+02	6.9774E+02	3.5600E+03	1.3609E+00	7.2392E+02
3.7500E-01	5.9746E+01	2.4349E+02	6.9739E+02	3.5600E+03	1.3598E+00	7.2353E+02
3.8000E-01	6.0444E+01	2.4335E+02	6.9704E+02	3.5600E+03	1.3586E+00	7.2315E+02
3.8500E-01	6.1824E+01	2.4321E+02	6.9669E+02	3.5600E+03	1.3576E+00	7.2278E+02
3.9000E-01	6.3183E+01	2.4307E+02	6.9635E+02	3.5600E+03	1.3566E+00	7.2242E+02
3.9500E-01	6.4520E+01	2.4294E+02	6.9601E+02	3.5600E+03	1.3556E+00	7.2207E+02
4.0000E-01	6.5835E+01	2.4281E+02	6.9568E+02	3.5600E+03	1.3547E+00	7.2172E+02
4.0500E-01	6.7128E+01	2.4269E+02	6.9535E+02	3.5600E+03	1.3539E+00	7.2137E+02
4.1000E-01	6.8400E+01	2.4256E+02	6.9503E+02	3.5600E+03	1.3531E+00	7.2102E+02
4.1500E-01	6.9027E+01	2.4244E+02	6.9472E+02	3.5600E+03	1.3523E+00	7.2068E+02
4.2000E-01	7.0265E+01	2.4232E+02	6.9441E+02	3.5600E+03	1.3516E+00	7.2035E+02
4.2500E-01	7.1481E+01	2.4221E+02	6.9411E+02	3.5600E+03	1.3509E+00	7.1991E+02
4.3000E-01	7.2676E+01	2.4210E+02	6.9380E+02	3.5600E+03	1.3497E+00	7.1956E+02
4.3500E-01	7.3848E+01	2.4199E+02	6.9350E+02	3.5600E+03	1.3491E+00	7.1937E+02
4.4000E-01	7.5265E+01	2.4189E+02	6.9321E+02	3.5600E+03	1.3486E+00	7.1907E+02
4.4500E-01	7.6683E+01	2.4180E+02	6.9293E+02	3.5600E+03	1.3481E+00	7.1877E+02
4.5000E-01	7.7779E+01	2.4168E+02	6.9265E+02	3.5600E+03	1.3481E+00	7.1849E+02
4.5500E-01	7.8854E+01	2.4149E+02	6.9237E+02	3.5600E+03	1.3477E+00	7.1820E+02
4.6000E-01	8.0308E+01	2.4139E+02	6.9210E+02	3.5600E+03	1.3472E+00	7.1793E+02
4.6500E-01	8.0939E+01	2.4130E+02	6.9184E+02	3.5600E+03	1.3469E+00	7.1766E+02
4.7000E-01	8.1950E+01	2.4122E+02	6.9158E+02	3.5600E+03	1.3465E+00	7.1745E+02
4.7500E-01	8.2447E+01	2.4113E+02	6.9132E+02	3.5600E+03	1.3462E+00	7.1719E+02
4.8000E-01	8.3427E+01	2.4105E+02	6.9107E+02	3.5600E+03	1.3456E+00	7.1694E+02
4.8500E-01	8.4278E+01	2.4096E+02	6.9082E+02	3.5600E+03	1.3455E+00	7.1669E+02
4.9000E-01	8.4386E+01	2.4088E+02	6.9058E+02	3.5600E+03	1.3450E+00	7.1644E+02
4.9500E-01	8.5325E+01	2.4081E+02	6.9035E+02	3.5600E+03	1.3448E+00	7.1620E+02
5.0000E-01	8.6244E+01	2.4073E+02	6.9011E+02	3.5600E+03	1.3448E+00	7.1620E+02

Appendix #38.

ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.000E+00	1.000E+01	-2.7441E-07	-2.3879E-03	-5.9295E-02	3.7123E-01	1.7969E+00	-1.7201E-08
1.000E-01	1.000E+01	4.7021E-05	2.3462E-01	2.0719E+01	6.4856E-01	2.3962E+01	3.0128E-04
2.000E-02	1.000E+01	4.0647E-05	3.0762E-01	1.1571E+01	8.0569E-01	1.5599E+01	6.7988E-05
3.000E-02	1.000E+01	3.3810E-05	3.0310E-01	8.6192E+00	8.9397E-01	1.1089E+01	-1.7992E-05
4.000E-02	1.000E+01	2.7350E-05	2.8917E-01	4.0420E+00	9.4591E-01	8.7715E+00	-4.2810E-05
5.000E-02	1.000E+01	2.2047E-05	2.8714E-01	2.6209E+00	9.7862E-01	7.5220E+00	-4.4917E-05
6.000E-02	1.000E+01	1.7586E-05	1.8678E-01	1.7597E+00	1.0003E+00	6.7610E+00	-3.9479E-05
7.000E-02	1.000E+01	1.3832E-05	1.5068E-01	1.1485E+00	1.0147E+00	5.7218E+00	-3.2453E-05
8.000E-02	1.000E+01	1.0640E-05	1.1930E-01	6.6828E-01	1.0237E+00	5.7866E+00	-2.6061E-05
1.000E-01	1.000E+01	7.8710E-06	9.2270E-02	2.6216E-01	1.0283E+00	5.4035E+00	-2.1164E-05
1.000E-01	1.000E+01	5.9055E-06	6.8969E-02	9.5658E-02	1.0291E+00	5.0497E+00	-1.7927E-05
1.000E-01	1.000E+01	3.4128E-06	4.8784E-02	-4.1733E-01	1.0265E+00	4.7151E+00	-1.6147E-05
1.000E-01	1.000E+01	1.5871E-06	3.1193E-02	-7.0870E-01	1.0208E+00	4.3954E+00	-1.5640E-05
1.000E-01	1.000E+01	-2.4842E-06	1.5770E-02	-9.7252E-01	1.0124E+00	4.0894E+00	-1.6101E-05
1.000E-01	1.000E+01	-1.4517E-06	2.1846E-03	-1.2101E+00	1.0015E+00	3.7972E+00	-1.7162E-05
1.000E-01	1.000E+01	-2.7148E-06	-8.8156E-03	-1.4220E+00	9.8828E-01	3.5193E+00	-1.6508E-05
1.000E-01	1.000E+01	-4.8111E-06	-2.0422E-02	-1.6088E+00	9.7310E-01	3.2467E+00	-1.9914E-05
1.000E-01	1.000E+01	-5.6655E-06	-3.8001E-02	-1.7707E+00	9.5618E-01	3.0102E+00	-2.1163E-05
1.000E-01	1.000E+01	-6.4051E-06	-4.5176E-02	-1.9085E+00	9.3777E-01	2.7804E+00	-2.2075E-05
1.000E-01	1.000E+01	-7.0346E-06	-5.1379E-02	-2.0229E+00	9.1809E-01	2.5575E+00	-2.2624E-05
1.000E-01	1.000E+01	-7.5623E-06	-5.6674E-02	-2.1152E+00	8.9738E-01	2.3718E+00	-2.2781E-05
1.000E-01	1.000E+01	-7.9954E-06	-6.1125E-02	-2.1866E+00	8.7585E-01	2.0298E+00	-2.1974E-05
1.000E-01	1.000E+01	-8.3409E-06	-6.4794E-02	-2.2388E+00	8.5372E-01	1.8233E+00	-2.1136E-05
1.000E-01	1.000E+01	-8.6063E-06	-6.7738E-02	-2.2724E+00	8.3114E-01	1.6294E+00	-2.0089E-05
1.000E-01	1.000E+01	-8.7987E-06	-7.0018E-02	-2.2873E+00	8.0830E-01	1.4926E+00	-1.8896E-05
1.000E-01	1.000E+01	-8.9253E-06	-7.1682E-02	-2.2900E+00	7.8534E-01	1.3398E+00	-1.7620E-05
1.000E-01	1.000E+01	-8.9931E-06	-7.2821E-02	-2.2721E+00	7.5958E-01	1.2205E+00	-1.6305E-05
1.000E-01	1.000E+01	-9.0089E-06	-7.3460E-02	-2.2105E+00	7.3958E-01	1.0938E+00	-1.4993E-05
1.000E-01	1.000E+01	-9.0995E-06	-7.3686E-02	-2.1696E+00	7.1779E-01	1.0304E+00	-1.3711E-05
1.000E-01	1.000E+01	-9.1748E-06	-7.3489E-02	-2.1633E+00	6.9470E-01	1.1944E+00	-1.2481E-05
1.000E-01	1.000E+01	-8.8057E-06	-7.2979E-02	-2.1233E+00	6.5133E-01	1.3333E+00	-1.1317E-05
1.000E-01	1.000E+01	-8.6728E-06	-7.1183E-02	-2.0729E+00	6.3034E-01	1.0788E+00	-1.0230E-05
1.000E-01	1.000E+01	-8.3375E-06	-6.9891E-02	-2.0190E+00	6.0988E-01	1.0304E+00	-9.2190E-06
1.000E-01	1.000E+01	-8.1430E-06	-6.8468E-02	-1.9626E+00	5.8997E-01	9.8729E-01	-8.2190E-06
1.000E-01	1.000E+01	-7.9350E-06	-6.6903E-02	-1.9042E+00	5.7064E-01	9.4901E-01	-7.4362E-06
1.000E-01	1.000E+01	-7.7164E-06	-6.5223E-02	-1.8444E+00	5.5189E-01	9.1506E-01	-6.6560E-06
1.000E-01	1.000E+01	-7.4899E-06	-6.3452E-02	-1.7836E+00	5.3375E-01	8.8499E-01	-5.9480E-06
1.000E-01	1.000E+01	-7.2575E-06	-6.1612E-02	-1.7272E+00	5.1622E-01	8.5842E-01	-5.3075E-06
1.000E-01	1.000E+01	-7.0213E-06	-5.9731E-02	-1.6615E+00	4.9930E-01	8.3500E-01	-4.7269E-06
1.000E-01	1.000E+01	-6.7829E-06	-5.7765E-02	-1.6005E+00	4.8299E-01	8.1442E-01	-4.1985E-06
1.000E-01	1.000E+01	-6.5438E-06	-5.5849E-02	-1.5400E+00	4.6729E-01	7.9640E-01	-3.7241E-06
1.000E-01	1.000E+01	-6.3052E-06	-5.3894E-02	-1.4802E+00	4.5218E-01	7.8070E-01	-3.2968E-06
1.000E-01	1.000E+01	-6.0682E-06	-5.1941E-02	-1.4213E+00	4.3768E-01	7.6709E-01	-2.9091E-06
1.000E-01	1.000E+01	-5.8363E-06	-5.0063E-02	-1.3634E+00	4.2376E-01	7.5537E-01	-2.5575E-06

4.5000E-01	1.0000E+01	-5.8338E-06	-5.0000E-02	-1.3067E+00	4.1041E-01	7.4537E-01	-2.2448E-06
4.6000E-01	1.0000E+01	5.6022E-08	4.8077E-02	1.2512E+00	3.9782E-01	7.3692E-01	-1.9606E-06
4.7000E-01	1.0000E+01	5.3746E-08	4.6179E-02	1.1970E+00	3.8538E-01	7.2987E-01	-1.7023E-06
4.8000E-01	1.0000E+01	5.1514E-08	4.4312E-02	1.1443E+00	3.7387E-01	7.2408E-01	-1.4171E-06
4.9000E-01	1.0000E+01	4.9330E-08	4.2479E-02	1.0930E+00	3.6249E-01	7.1945E-01	-1.2637E-06
5.0000E-01	1.0000E+01	4.7198E-08	4.0685E-02	1.0432E+00	3.5181E-01	7.1589E-01	-1.0743E-06
5.2000E-01	1.0000E+01	4.5119E-08	3.8933E-02	9.9495E-01	3.4182E-01	7.1321E-01	-9.0358E-07
5.4000E-01	1.0000E+01	4.3098E-08	3.7244E-02	9.4612E-01	3.3191E-01	7.1141E-01	-6.1321E-07
5.6000E-01	1.0000E+01	4.1134E-08	3.5561E-02	8.9789E-01	3.2265E-01	7.1003E-01	-4.8695E-07
5.8000E-01	1.0000E+01	3.9278E-08	3.3956E-02	8.5029E-01	3.1384E-01	7.1030E-01	-3.7631E-07
6.0000E-01	1.0000E+01	3.7589E-08	3.2378E-02	8.0385E-01	3.0546E-01	7.1130E-01	-2.7567E-07
6.2000E-01	1.0000E+01	3.5992E-08	3.0855E-02	7.5702E-01	2.9750E-01	7.1113E-01	-1.7561E-07
6.4000E-01	1.0000E+01	3.4496E-08	2.9380E-02	7.1020E-01	2.8993E-01	7.1246E-01	-1.8394E-07
6.6000E-01	1.0000E+01	3.2209E-08	2.7969E-02	6.6351E-01	2.8275E-01	7.1423E-01	-1.0271E-07
6.8000E-01	1.0000E+01	3.0604E-08	2.6598E-02	6.1678E-01	2.7594E-01	7.1640E-01	-3.0449E-08
7.0000E-01	1.0000E+01	2.9059E-08	2.5276E-02	5.7048E-01	2.6948E-01	7.1892E-01	3.5303E-08
7.2000E-01	1.0000E+01	2.7570E-08	2.4002E-02	5.2476E-01	2.6336E-01	7.2174E-01	9.4353E-08
7.4000E-01	1.0000E+01	2.6139E-08	2.2776E-02	4.7957E-01	2.5757E-01	7.2484E-01	1.4520E-07
7.6000E-01	1.0000E+01	2.4765E-08	2.1597E-02	4.3492E-01	2.5210E-01	7.2817E-01	1.9128E-07
7.8000E-01	1.0000E+01	2.3446E-08	2.0464E-02	3.9080E-01	2.4692E-01	7.3171E-01	2.3289E-07
8.0000E-01	1.0000E+01	2.2181E-08	1.9378E-02	3.4719E-01	2.4203E-01	7.3541E-01	2.6807E-07
8.2000E-01	1.0000E+01	2.0968E-08	1.8333E-02	3.0412E-01	2.3742E-01	7.3927E-01	2.9918E-07
8.4000E-01	1.0000E+01	1.9807E-08	1.7333E-02	2.6152E-01	2.3307E-01	7.4325E-01	3.2701E-07
8.6000E-01	1.0000E+01	1.8696E-08	1.6375E-02	2.1942E-01	2.2898E-01	7.4732E-01	3.5243E-07
8.8000E-01	1.0000E+01	1.7634E-08	1.5459E-02	1.7772E-01	2.2512E-01	7.5147E-01	3.7643E-07
9.0000E-01	1.0000E+01	1.6618E-08	1.4582E-02	1.3642E-01	2.2149E-01	7.5569E-01	4.0056E-07
7.2000E-01	1.0000E+01	1.5649E-08	1.3744E-02	9.5562E-01	2.1808E-01	7.5994E-01	4.2516E-07
7.4000E-01	1.0000E+01	1.4724E-08	1.2944E-02	8.4488E-01	2.1488E-01	7.6421E-01	4.5078E-07
7.6000E-01	1.0000E+01	1.3842E-08	1.2181E-02	7.3465E-01	2.1187E-01	7.6850E-01	4.7678E-07
7.8000E-01	1.0000E+01	1.3001E-08	1.1453E-02	6.2498E-01	2.0906E-01	7.7290E-01	5.0308E-07
8.0000E-01	1.0000E+01	1.2201E-08	1.0759E-02	5.1572E-01	2.0642E-01	7.7706E-01	5.2967E-07
8.2000E-01	1.0000E+01	1.1439E-08	1.0099E-02	4.0702E-01	2.0395E-01	7.8131E-01	5.5678E-07
8.4000E-01	1.0000E+01	1.0714E-08	9.4687E-03	3.0885E-01	2.0165E-01	7.8553E-01	5.8420E-07
8.6000E-01	1.0000E+01	1.0028E-08	8.8704E-03	2.1078E-01	1.9950E-01	7.8970E-01	6.1171E-07
8.8000E-01	1.0000E+01	9.3717E-07	8.3018E-03	1.1363E-01	1.9749E-01	7.9382E-01	6.3936E-07
9.0000E-01	1.0000E+01	8.7511E-07	7.7616E-03	2.1622E-01	1.9562E-01	7.9788E-01	6.6717E-07
8.2000E-01	1.0000E+01	8.1624E-07	7.2489E-03	1.8022E-01	1.9388E-01	8.0188E-01	6.9514E-07
8.4000E-01	1.0000E+01	7.6045E-07	6.7626E-03	1.4418E-01	1.9227E-01	8.0581E-01	7.2347E-07
8.6000E-01	1.0000E+01	7.0761E-07	6.3016E-03	1.0838E-01	1.9077E-01	8.0967E-01	7.5194E-07
8.8000E-01	1.0000E+01	6.5760E-07	5.8650E-03	1.3347E-01	1.8938E-01	8.1345E-01	7.8055E-07
9.0000E-01	1.0000E+01	6.1030E-07	5.4516E-03	1.2336E-01	1.8810E-01	8.1715E-01	8.0936E-07
8.2000E-01	1.0000E+01	5.6560E-07	5.0607E-03	1.1381E-01	1.8691E-01	8.2076E-01	8.3836E-07
8.4000E-01	1.0000E+01	5.2338E-07	4.6911E-03	1.0482E-01	1.8582E-01	8.2429E-01	8.6745E-07
8.6000E-01	1.0000E+01	4.8354E-07	4.3420E-03	9.6482E-01	1.8482E-01	8.2773E-01	8.9645E-07
8.8000E-01	1.0000E+01	4.4597E-07	4.0126E-03	8.8385E-02	1.8389E-01	8.3108E-01	9.2545E-07
9.0000E-01	1.0000E+01	4.1056E-07	3.7019E-03	8.0898E-02	1.8305E-01	8.3494E-01	9.5445E-07
8.2000E-01	1.0000E+01	3.7724E-07	3.4019E-03	7.3867E-02	1.8227E-01	8.3750E-01	9.8345E-07
8.4000E-01	1.0000E+01	3.4581E-07	3.1344E-03	6.7261E-02	1.8157E-01	8.4058E-01	1.0124E-06
8.6000E-01	1.0000E+01	3.1641E-07	2.8740E-03	6.1072E-02	1.8093E-01	8.4356E-01	1.0411E-06
8.8000E-01	1.0000E+01	2.8874E-07	2.6202E-03	5.5275E-02	1.8034E-01	8.4645E-01	1.0701E-06
9.0000E-01	1.0000E+01	2.6278E-07	2.4012E-03	4.9850E-02	1.7982E-01	8.4925E-01	1.1001E-06
8.2000E-01	1.0000E+01	2.3844E-07	2.1863E-03	4.4779E-02	1.7935E-01	8.5195E-01	1.1314E-06
8.4000E-01	1.0000E+01	2.1566E-07	1.9848E-03	4.0044E-02	1.7892E-01	8.5457E-01	1.1632E-06
8.6000E-01	1.0000E+01	1.9432E-07	1.7961E-03	3.5627E-02	1.7854E-01	8.5710E-01	1.1954E-06
8.8000E-01	1.0000E+01	1.7439E-07	1.6195E-03	3.1511E-02	1.7821E-01	8.5954E-01	1.2282E-06
9.0000E+00	1.0000E+01	1.5578E-07	1.4544E-03	2.7681E-02	1.7791E-01	8.6189E-01	2.8389E-07

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+08	2.5800E+01	7.4400E+01	1.7140E+01
1.6280E+02	2.1589E-10	3.3566E+03	2.7800E+01	2.7800E-02	1.7760E-02	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	2.5000E-10	8.2600E+01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	8.0000E+01						
0.0000E+00							
0.0000E+00							
0.0000E+00							
0.0000E+00							
0.0000E+00							
0.0000E+00							
0.0000E+00							
1.0000E-01	3.6073E-09	6.5489E-07	2.9876E-02	4.9615E+00	8.2808E+00	1.6081E+02	2.1951E+04
1.0000E-01	3.5140E-09	6.3980E-07	2.8956E-02	4.8428E+00	7.8077E+00	1.5542E+02	2.0799E+04
1.0000E-01	3.4208E-09	6.2640E-07	2.8269E-02	4.7312E+00	7.7073E+00	1.4849E+02	2.0231E+04
1.0000E-01	3.3259E-09	6.1581E-07	2.7631E-02	4.6308E+00	7.5734E+00	1.4505E+02	1.9620E+04
1.0000E-01	3.2177E-09	6.0794E-07	2.7050E-02	4.5425E+00	7.4128E+00	1.3637E+02	1.8949E+04
1.0000E-01	3.1043E-09	6.0105E-07	2.6530E-02	4.4638E+00	7.2734E+00	1.2750E+02	1.8219E+04
1.0000E-01	2.9830E-09	5.9536E-07	2.6074E-02	4.3954E+00	7.1825E+00	1.2146E+02	1.7433E+04
1.0000E-01	2.8533E-09	5.9229E-07	2.5681E-02	4.3398E+00	7.0789E+00	1.1600E+02	1.6595E+04
1.0000E-01	2.7233E-09	5.8977E-07	2.5348E-02	4.2928E+00	6.9941E+00	1.0387E+02	1.5726E+04
2.0000E-01	2.5891E-09	5.8789E-07	2.5071E-02	4.2541E+00	6.9265E+00	9.5845E+01	1.4642E+04
2.0000E-01	2.4552E-09	5.8722E-07	2.4847E-02	4.2243E+00	6.8658E+00	8.9701E+01	1.3955E+04
2.0000E-01	2.3238E-09	5.8708E-07	2.4688E-02	4.1838E+00	6.8121E+00	8.2748E+01	1.3084E+04
2.0000E-01	2.1965E-09	5.8718E-07	2.4530E-02	4.1714E+00	6.7951E+00	7.6517E+01	1.2440E+04
2.0000E-01	1.9597E-09	5.8845E-07	2.4352E-02	4.1631E+00	6.7955E+00	7.1421E+01	1.1832E+04
2.0000E-01	1.7519E-09	5.8932E-07	2.4202E-02	4.1588E+00	6.7708E+00	6.6304E+01	1.0667E+04
2.0000E-01	1.5955E-09	5.9036E-07	2.4072E-02	4.1585E+00	6.7668E+00	6.1789E+01	9.5099E+03
2.0000E-01	1.5795E-09	5.9251E-07	2.4258E-02	4.1587E+00	6.7700E+00	5.4256E+01	9.2852E+03
3.0000E-01	1.4977E-09	5.9370E-07	2.4268E-02	4.1622E+00	6.7759E+00	5.1092E+01	8.6707E+03
3.0000E-01	1.4275E-09	5.9490E-07	2.4287E-02	4.1668E+00	6.7813E+00	4.5650E+01	7.5920E+03
3.0000E-01	1.3646E-09	5.9608E-07	2.4313E-02	4.1722E+00	6.8021E+00	4.3463E+01	6.6997E+03
3.0000E-01	1.2506E-09	5.9739E-07	2.4345E-02	4.1785E+00	6.8211E+00	4.1544E+01	6.3163E+03
3.0000E-01	1.2087E-09	5.9862E-07	2.4381E-02	4.1854E+00	6.8110E+00	3.9554E+01	5.9706E+03
3.0000E-01	1.1671E-09	6.0101E-07	2.4420E-02	4.1925E+00	6.8235E+00	3.8059E+01	5.6601E+03
3.0000E-01	1.1300E-09	6.0230E-07	2.4461E-02	4.2000E+00	6.8367E+00	3.6751E+01	5.3611E+03
3.0000E-01	1.0968E-09	6.0344E-07	2.4505E-02	4.2078E+00	6.8503E+00	3.5608E+01	5.1309E+03
3.0000E-01	1.0672E-09	6.0458E-07	2.4566E-02	4.2156E+00	6.8646E+00	3.4261E+01	4.9075E+03
4.0000E-01	1.0409E-09	6.0577E-07	2.4642E-02	4.2235E+00	6.8796E+00	3.3388E+01	4.7095E+03
4.0000E-01	1.0176E-09	6.0690E-07	2.4688E-02	4.2315E+00	6.8885E+00	3.2631E+01	4.5297E+03
4.0000E-01	9.9689E-10	6.0793E-07	2.4734E-02	4.2411E+00	6.8990E+00	3.1630E+01	4.3713E+03
4.0000E-01	9.7860E-10	6.0900E-07	2.4779E-02	4.2548E+00	6.9127E+00	3.0690E+01	4.2308E+03
4.0000E-01	9.6249E-10	6.1008E-07	2.4824E-02	4.2635E+00	6.9262E+00	2.9854E+01	4.1060E+03
4.0000E-01	9.4832E-10	6.1098E-07	2.4868E-02	4.2697E+00	6.9491E+00	2.9519E+01	3.9956E+03
4.0000E-01	9.3595E-10	6.1191E-07	2.4910E-02	4.2768E+00	6.9617E+00	2.9241E+01	3.8135E+03

4.7000E-01	6.1286E-07	2.4952E-02	4.2838E+00	6.9739E+02	2.9012E+01	3.7386E+03
4.8000E-01	6.1370E-07	2.4992E-02	4.2906E+00	6.9827E+02	2.8539E+01	3.6737E+03
4.9000E-01	6.1448E-07	2.5031E-02	4.2969E+00	6.9942E+02	2.8406E+01	3.6176E+03
5.0000E-01	6.1531E-07	2.5069E-02	4.3031E+00	7.0051E+02	2.8308E+01	3.5691E+03
5.1000E-01	6.1608E-07	2.5105E-02	4.3091E+00	7.0130E+02	2.7987E+01	3.5277E+03
5.2000E-01	6.1675E-07	2.5140E-02	4.3148E+00	7.0232E+02	2.7954E+01	3.4931E+03
5.3000E-01	6.1744E-07	2.5173E-02	4.3203E+00	7.0329E+02	2.7949E+01	3.4640E+03
5.4000E-01	6.1814E-07	2.5205E-02	4.3256E+00	7.0421E+02	2.7965E+01	3.4400E+03
5.5000E-01	6.1870E-07	2.5236E-02	4.3305E+00	7.0487E+02	2.7855E+01	3.4211E+03
5.6000E-01	6.1928E-07	2.5265E-02	4.3353E+00	7.0572E+02	2.7846E+01	3.4064E+03
5.7000E-01	6.1986E-07	2.5293E-02	4.3399E+00	7.0652E+02	2.7922E+01	3.3954E+03
5.8000E-01	6.2043E-07	2.5319E-02	4.3442E+00	7.0709E+02	2.7823E+01	3.3879E+03
5.9000E-01	6.2085E-07	2.5345E-02	4.3483E+00	7.0782E+02	2.7930E+01	3.3836E+03
6.0000E-01	6.2134E-07	2.5369E-02	4.3522E+00	7.0852E+02	2.8046E+01	3.3820E+03
6.1000E-01	6.2181E-07	2.5392E-02	4.3560E+00	7.0901E+02	2.8099E+01	3.3829E+03
6.2000E-01	6.2220E-07	2.5413E-02	4.3595E+00	7.0964E+02	2.8148E+01	3.3862E+03
6.3000E-01	6.2259E-07	2.5434E-02	4.3628E+00	7.1023E+02	2.8200E+01	3.3913E+03
6.4000E-01	6.2295E-07	2.5453E-02	4.3660E+00	7.1078E+02	2.8436E+01	3.3982E+03
6.5000E-01	6.2333E-07	2.5472E-02	4.3690E+00	7.1118E+02	2.8457E+01	3.4068E+03
6.6000E-01	6.2368E-07	2.5488E-02	4.3718E+00	7.1168E+02	2.8616E+01	3.4167E+03
6.7000E-01	6.2399E-07	2.5506E-02	4.3745E+00	7.1215E+02	2.8776E+01	3.4278E+03
6.8000E-01	6.2429E-07	2.5522E-02	4.3770E+00	7.1249E+02	2.8827E+01	3.4399E+03
6.9000E-01	6.2455E-07	2.5536E-02	4.3794E+00	7.1291E+02	2.8994E+01	3.4531E+03
7.0000E-01	6.2482E-07	2.5550E-02	4.3816E+00	7.1331E+02	2.9160E+01	3.4670E+03
7.1000E-01	6.2509E-07	2.5563E-02	4.3838E+00	7.1395E+02	2.9402E+01	3.4814E+03
7.2000E-01	6.2530E-07	2.5578E-02	4.3857E+00	7.1428E+02	2.9568E+01	3.4966E+03
7.3000E-01	6.2551E-07	2.5592E-02	4.3876E+00	7.1478E+02	2.9732E+01	3.5122E+03
7.4000E-01	6.2573E-07	2.5598E-02	4.3894E+00	7.1459E+02	2.9732E+01	3.5281E+03
7.5000E-01	6.2592E-07	2.5609E-02	4.3911E+00	7.1481E+02	2.9885E+01	3.5444E+03
7.6000E-01	6.2609E-07	2.5619E-02	4.3928E+00	7.1509E+02	2.9985E+01	3.5609E+03
7.7000E-01	6.2627E-07	2.5628E-02	4.3941E+00	7.1535E+02	3.0144E+01	3.5775E+03
7.8000E-01	6.2643E-07	2.5636E-02	4.3955E+00	7.1553E+02	3.0242E+01	3.5941E+03
7.9000E-01	6.2657E-07	2.5644E-02	4.3968E+00	7.1576E+02	3.0398E+01	3.6109E+03
8.0000E-01	6.2670E-07	2.5652E-02	4.3980E+00	7.1598E+02	3.0551E+01	3.6276E+03
8.1000E-01	6.2684E-07	2.5659E-02	4.3991E+00	7.1618E+02	3.0700E+01	3.6442E+03
8.2000E-01	6.2695E-07	2.5672E-02	4.4002E+00	7.1632E+02	3.0800E+01	3.6608E+03
8.3000E-01	6.2708E-07	2.5677E-02	4.4011E+00	7.1649E+02	3.0944E+01	3.6772E+03
8.4000E-01	6.2717E-07	2.5683E-02	4.4029E+00	7.1666E+02	3.1084E+01	3.6934E+03
8.5000E-01	6.2727E-07	2.5688E-02	4.4037E+00	7.1677E+02	3.1183E+01	3.7094E+03
8.6000E-01	6.2735E-07	2.5698E-02	4.4045E+00	7.1691E+02	3.1318E+01	3.7252E+03
8.7000E-01	6.2744E-07	2.5693E-02	4.4052E+00	7.1705E+02	3.1486E+01	3.7407E+03
8.8000E-01	6.2752E-07	2.5697E-02	4.4059E+00	7.1714E+02	3.1544E+01	3.7559E+03
8.9000E-01	6.2758E-07	2.5701E-02	4.4065E+00	7.1725E+02	3.1688E+01	3.7709E+03
9.0000E-01	6.2765E-07	2.5705E-02	4.4069E+00	7.1738E+02	3.1788E+01	3.7856E+03
9.1000E-01	6.2772E-07	2.5708E-02	4.4070E+00	7.1746E+02	3.1904E+01	3.7999E+03
9.2000E-01	6.2777E-07	2.5712E-02	4.4075E+00	7.1753E+02	3.1994E+01	3.8139E+03
9.3000E-01	6.2782E-07	2.5715E-02	4.4080E+00	7.1761E+02	3.2104E+01	3.8276E+03
9.4000E-01	6.2787E-07	2.5717E-02	4.4084E+00	7.1769E+02	3.2209E+01	3.8409E+03
9.5000E-01	6.2791E-07	2.5720E-02	4.4088E+00	7.1774E+02	3.2293E+01	3.8539E+03
9.6000E-01	6.2795E-07	2.5722E-02	4.4092E+00	7.1781E+02	3.2392E+01	3.8665E+03
9.7000E-01	6.2798E-07	2.5724E-02	4.4095E+00	7.1787E+02	3.2486E+01	3.8787E+03
9.8000E-01	6.2802E-07	2.5726E-02	4.4099E+00	7.1791E+02	3.2566E+01	3.8906E+03
9.9000E-01	6.2804E-07	2.5728E-02	4.4101E+00	7.1796E+02	3.2655E+01	3.9022E+03
1.0000E+00	6.2807E-07	2.5730E-02	4.4104E+00	7.1801E+02	3.2741E+01	3.9134E+03

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
0.0000E+00	-6.2114E-01	4.0588E-01	1.0131E-05	1.0000E+01	4.8028E-08	3.9021E-06	1.2370E-06
1.0000E-01	2.6654E+02	4.1790E+01	1.0139E-05	1.0000E+01	-3.3458E-08	3.6399E-06	-4.1574E-05
2.0000E-02	3.9857E+02	4.5303E+01	1.0191E-05	1.0000E+01	-1.3167E-05	3.4208E-06	-2.5072E-05
3.0000E-02	3.8723E+02	4.9259E+01	1.0308E-05	1.0000E+01	-6.4579E-08	3.3271E-06	-2.0468E-05
4.0000E-02	3.3824E+02	5.2871E+01	1.0484E-05	1.0000E+01	-5.5198E-08	3.2682E-06	-2.0167E-05
5.0000E-02	2.9413E+02	5.6777E+01	1.0708E-05	1.0000E+01	-5.2714E-08	3.2148E-06	-1.9717E-05
6.0000E-02	2.5873E+02	6.1185E+01	1.0969E-05	1.0000E+01	-4.9989E-08	3.1631E-06	-1.9716E-05
7.0000E-02	2.2604E+02	6.5219E+01	1.1257E-05	1.0000E+01	-4.8621E-08	3.1148E-06	-1.7310E-05
8.0000E-02	2.0094E+02	6.8316E+01	1.1565E-05	1.0000E+01	-3.9754E-08	3.0727E-06	-1.5387E-05
9.0000E-02	1.8037E+02	7.0693E+01	1.1888E-05	1.0000E+01	-2.9169E-08	3.0387E-06	-1.3291E-05
1.0000E-01	1.6335E+02	7.2442E+01	1.2217E-05	1.0000E+01	-1.8872E-08	3.0137E-06	-1.1192E-05
1.2000E-01	1.4897E+02	7.3568E+01	1.2554E-05	1.0000E+01	-1.1464E-08	2.9983E-06	-9.3012E-06
1.4000E-01	1.3664E+02	7.4242E+01	1.2893E-05	1.0000E+01	-7.2781E-07	2.9921E-06	-7.5668E-06
1.6000E-01	1.2584E+02	7.4592E+01	1.3232E-05	1.0000E+01	1.7034E-06	2.9845E-06	-5.9533E-06
1.8000E-01	1.1614E+02	7.4588E+01	1.3568E-05	1.0000E+01	1.2848E-06	3.0047E-06	-4.6929E-06
2.0000E-01	9.8031E+01	7.4588E+01	1.3903E-05	1.0000E+01	2.2848E-06	3.0217E-06	-3.4947E-06
3.0000E-01	8.1006E+01	7.5599E+01	1.4232E-05	1.0000E+01	2.5536E-06	3.0443E-06	-2.4954E-06
4.0000E-01	6.3614E+01	7.6472E+01	1.4556E-05	1.0000E+01	2.8573E-06	3.0716E-06	-1.7615E-06
5.0000E-01	4.6468E+01	7.7212E+01	1.4873E-05	1.0000E+01	3.2158E-06	3.1025E-06	-1.0876E-06
6.0000E-01	2.9641E+01	7.7942E+01	1.5182E-05	1.0000E+01	3.4695E-06	3.1361E-06	-5.5014E-07
7.0000E-01	1.3120E+01	7.8606E+01	1.5483E-05	1.0000E+01	3.6309E-06	3.1714E-06	-1.2740E-07
8.0000E-01	5.6927E+01	7.9206E+01	1.5774E-05	1.0000E+01	3.8516E-06	3.2078E-06	1.6516E-07
9.0000E-01	1.1081E+01	7.9746E+01	1.6058E-05	1.0000E+01	3.8852E-06	3.2446E-06	4.2591E-07
1.0000E+00	4.5589E+01	8.0229E+01	1.6329E-05	1.0000E+01	3.8551E-06	3.2814E-06	6.2547E-07
2.0000E+00	4.0459E+01	8.0659E+01	1.6590E-05	1.0000E+01	3.7934E-06	3.3176E-06	7.6375E-07
3.0000E+00	3.5700E+01	8.1039E+01	1.6842E-05	1.0000E+01	3.4955E-06	3.3531E-06	8.8355E-07
4.0000E+00	3.1305E+01	8.1374E+01	1.7082E-05	1.0000E+01	3.3877E-06	3.3875E-06	9.7448E-07
5.0000E+00	2.7268E+01	8.1666E+01	1.7312E-05	1.0000E+01	3.2631E-06	3.4207E-06	1.0434E-06
6.0000E+00	2.3575E+01	8.1920E+01	1.7531E-05	1.0000E+01	2.9921E-06	3.4527E-06	1.0967E-06
7.0000E+00	2.0210E+01	8.2139E+01	1.7739E-05	1.0000E+01	2.8501E-06	3.4833E-06	1.1380E-06
8.0000E+00	1.7155E+01	8.2326E+01	1.7937E-05	1.0000E+01	2.7183E-06	3.5126E-06	1.1688E-06
9.0000E+00	1.4390E+01	8.2483E+01	1.8124E-05	1.0000E+01	2.5775E-06	3.5404E-06	1.1975E-06
1.0000E+01	1.1893E+01	8.2614E+01	1.8300E-05	1.0000E+01	2.4382E-06	3.5668E-06	1.2143E-06
2.0000E+01	9.6437E+00	8.2722E+01	1.8472E-05	1.0000E+01	2.3072E-06	3.5919E-06	1.2253E-06
3.0000E+01	7.8749E+00	8.2806E+01	1.8572E-05	1.0000E+01	2.1752E-06	3.6157E-06	1.2400E-06
4.0000E+01	6.6128E+00	8.2875E+01	1.8672E-05	1.0000E+01	2.0563E-06	3.6382E-06	1.2424E-06
5.0000E+01	5.6128E+00	8.2925E+01	1.8720E-05	1.0000E+01	1.9315E-06	3.6594E-06	1.2410E-06
6.0000E+01	4.8900E+00	8.2959E+01	1.8760E-05	1.0000E+01	1.8292E-06	3.6982E-06	1.2388E-06
7.0000E+01	4.3081E+01	8.2980E+01	1.8793E-05	1.0000E+01	1.7135E-06	3.7159E-06	1.2291E-06
8.0000E+01	3.8081E-01	8.2987E+01	1.8827E-05	1.0000E+01	1.6024E-06	3.7325E-06	1.2173E-06
9.0000E+01	3.3894E+01	8.2997E+01	1.8858E-05	1.0000E+01	1.5139E-06	3.7480E-06	1.2134E-06
1.0000E+02	3.0416E+00	8.2995E+01	1.8886E-05	1.0000E+01	1.4120E-06	3.7626E-06	1.1984E-06
2.0000E+02	2.7416E+00	8.2995E+01	1.8910E-05	1.0000E+01	1.3147E-06	3.7763E-06	1.1821E-06
3.0000E+02	2.4612E+00	8.2995E+01	1.8928E-05	1.0000E+01	1.2390E-06	3.7890E-06	1.1741E-06
4.0000E+02	2.1980E+00	8.2995E+01	1.8942E-05	1.0000E+01	1.1506E-06	3.8009E-06	1.1559E-06
5.0000E+02	1.9524E+00	8.2852E+01	1.8965E-05	1.0000E+01	1.0667E-06	3.8120E-06	1.1373E-06

4.7000E-01	-4.7286E+00	8.2807E+01	1.9925E-05	1.0000E+01	9.8707E-07	3.8222E-08	1.1184E-06
4.8000E-01	-5.1235E+00	8.2758E+01	1.9980E-05	1.0000E+01	9.2637E-07	3.8319E-08	1.1073E-06
4.9000E-01	-5.4620E+00	8.2705E+01	2.0030E-05	1.0000E+01	9.5541E-07	3.8407E-08	1.0879E-06
5.0000E-01	-5.7492E+00	8.2649E+01	2.0075E-05	1.0000E+01	9.7789E-07	3.8490E-08	1.0685E-06
5.1000E-01	-6.0882E+00	8.2590E+01	2.0117E-05	1.0000E+01	7.3774E-07	3.8566E-08	1.0565E-06
5.2000E-01	-6.4819E+00	8.2530E+01	2.0154E-05	1.0000E+01	6.7741E-07	3.8636E-08	1.0372E-06
5.3000E-01	-6.9379E+00	8.2467E+01	2.0188E-05	1.0000E+01	6.2089E-07	3.8701E-08	1.0183E-06
5.4000E-01	-7.4597E+00	8.2403E+01	2.0218E-05	1.0000E+01	5.6744E-07	3.8761E-08	9.9967E-07
5.5000E-01	-8.0586E+00	8.2338E+01	2.0244E-05	1.0000E+01	5.2885E-07	3.8816E-08	9.8759E-07
5.6000E-01	-8.7401E+00	8.2272E+01	2.0268E-05	1.0000E+01	4.9164E-07	3.8866E-08	9.6960E-07
5.7000E-01	-9.5059E+00	8.2206E+01	2.0290E-05	1.0000E+01	4.5747E-07	3.8913E-08	9.5209E-07
5.8000E-01	-1.0364E+00	8.2139E+01	2.0307E-05	1.0000E+01	4.2699E-07	3.8955E-08	9.4036E-07
5.9000E-01	-1.1323E+00	8.2073E+01	2.0322E-05	1.0000E+01	3.9999E-07	3.8993E-08	9.2363E-07
6.0000E-01	-1.2450E+00	8.2007E+01	2.0336E-05	1.0000E+01	3.7613E-07	3.9028E-08	9.0742E-07
6.1000E-01	-1.3859E+00	8.1941E+01	2.0347E-05	1.0000E+01	3.5535E-07	3.9060E-08	8.9628E-07
6.2000E-01	-1.5567E+00	8.1875E+01	2.0356E-05	1.0000E+01	3.3725E-07	3.9089E-08	8.8020E-07
6.3000E-01	-1.7625E+00	8.1811E+01	2.0364E-05	1.0000E+01	3.2260E-07	3.9114E-08	8.6611E-07
6.4000E-01	-2.0092E+00	8.1747E+01	2.0370E-05	1.0000E+01	3.1066E-07	3.9138E-08	8.5418E-07
6.5000E-01	-2.2928E+00	8.1684E+01	2.0374E-05	1.0000E+01	2.9926E-07	3.9158E-08	8.4473E-07
6.6000E-01	-2.6105E+00	8.1622E+01	2.0377E-05	1.0000E+01	2.8848E-07	3.9172E-08	8.3832E-07
6.7000E-01	-2.9685E+00	8.1561E+01	2.0378E-05	1.0000E+01	2.7828E-07	3.9179E-08	8.3401E-07
6.8000E-01	-3.3727E+00	8.1502E+01	2.0379E-05	1.0000E+01	2.6864E-07	3.9207E-08	8.3061E-07
6.9000E-01	-3.8292E+00	8.1443E+01	2.0378E-05	1.0000E+01	2.5958E-07	3.9220E-08	8.2790E-07
7.0000E-01	-4.3449E+00	8.1386E+01	2.0376E-05	1.0000E+01	2.5100E-07	3.9230E-08	8.2488E-07
7.1000E-01	-4.9259E+00	8.1330E+01	2.0373E-05	1.0000E+01	2.4287E-07	3.9240E-08	8.2148E-07
7.2000E-01	-5.5782E+00	8.1276E+01	2.0370E-05	1.0000E+01	2.3517E-07	3.9248E-08	8.1771E-07
7.3000E-01	-6.3080E+00	8.1223E+01	2.0366E-05	1.0000E+01	2.2797E-07	3.9254E-08	8.1359E-07
7.4000E-01	-7.1213E+00	8.1171E+01	2.0361E-05	1.0000E+01	2.2126E-07	3.9254E-08	8.0911E-07
7.5000E-01	-8.0246E+00	8.1121E+01	2.0356E-05	1.0000E+01	2.1504E-07	3.9260E-08	8.0430E-07
7.6000E-01	-9.0248E+00	8.1072E+01	2.0350E-05	1.0000E+01	2.0930E-07	3.9264E-08	7.9920E-07
7.7000E-01	-1.0129E+00	8.1025E+01	2.0344E-05	1.0000E+01	2.0400E-07	3.9267E-08	7.9380E-07
7.8000E-01	-1.1342E+00	8.0979E+01	2.0337E-05	1.0000E+01	1.9913E-07	3.9269E-08	7.8815E-07
7.9000E-01	-1.2677E+00	8.0935E+01	2.0330E-05	1.0000E+01	1.9469E-07	3.9271E-08	7.8230E-07
8.0000E-01	-1.4144E+00	8.0892E+01	2.0323E-05	1.0000E+01	1.9069E-07	3.9271E-08	7.7620E-07
8.1000E-01	-1.5756E+00	8.0850E+01	2.0315E-05	1.0000E+01	1.8704E-07	3.9271E-08	7.7000E-07
8.2000E-01	-1.7522E+00	8.0810E+01	2.0308E-05	1.0000E+01	1.8374E-07	3.9270E-08	7.6370E-07
8.3000E-01	-1.9458E+00	8.0771E+01	2.0300E-05	1.0000E+01	1.8078E-07	3.9270E-08	7.5730E-07
8.4000E-01	-2.1580E+00	8.0734E+01	2.0292E-05	1.0000E+01	1.7806E-07	3.9267E-08	7.5080E-07
8.5000E-01	-2.3902E+00	8.0698E+01	2.0284E-05	1.0000E+01	1.7558E-07	3.9267E-08	7.4420E-07
8.6000E-01	-2.6440E+00	8.0663E+01	2.0276E-05	1.0000E+01	1.7334E-07	3.9262E-08	7.3750E-07
8.7000E-01	-2.9200E+00	8.0630E+01	2.0268E-05	1.0000E+01	1.7134E-07	3.9259E-08	7.3070E-07
8.8000E-01	-3.2200E+00	8.0598E+01	2.0259E-05	1.0000E+01	1.6956E-07	3.9256E-08	7.2380E-07
8.9000E-01	-3.5450E+00	8.0567E+01	2.0251E-05	1.0000E+01	1.6800E-07	3.9252E-08	7.1680E-07
9.0000E-01	-3.9060E+00	8.0537E+01	2.0243E-05	1.0000E+01	1.6664E-07	3.9248E-08	7.0970E-07
9.1000E-01	-4.3050E+00	8.0509E+01	2.0235E-05	1.0000E+01	1.6548E-07	3.9244E-08	7.0250E-07
9.2000E-01	-4.7440E+00	8.0482E+01	2.0227E-05	1.0000E+01	1.6451E-07	3.9239E-08	6.9520E-07
9.3000E-01	-5.2260E+00	8.0456E+01	2.0219E-05	1.0000E+01	1.6372E-07	3.9235E-08	6.8790E-07
9.4000E-01	-5.7540E+00	8.0431E+01	2.0212E-05	1.0000E+01	1.6310E-07	3.9230E-08	6.8050E-07
9.5000E-01	-6.3300E+00	8.0407E+01	2.0204E-05	1.0000E+01	1.6262E-07	3.9226E-08	6.7300E-07
9.6000E-01	-6.9580E+00	8.0384E+01	2.0196E-05	1.0000E+01	1.6228E-07	3.9221E-08	6.6540E-07
9.7000E-01	-7.6420E+00	8.0362E+01	2.0189E-05	1.0000E+01	1.6206E-07	3.9216E-08	6.5770E-07
9.8000E-01	-8.3880E+00	8.0341E+01	2.0182E-05	1.0000E+01	1.6194E-07	3.9211E-08	6.5000E-07
9.9000E-01	-9.2020E+00	8.0321E+01	2.0175E-05	1.0000E+01	1.6192E-07	3.9206E-08	6.4230E-07
1.0000E+00	-1.0085E+00	8.0302E+01	2.0168E-05	1.0000E+01	1.6199E-07	3.9201E-08	6.3470E-07





4. 7000E-01	1. 3158E+02	1. 2553E+02	6. 6838E+02	1. 7800E+03	1. 3923E+00	6. 9100E+02
4. 8000E-01	1. 3007E+02	1. 2586E+02	6. 6974E+02	1. 7800E+03	1. 3494E+00	6. 9184E+02
4. 9000E-01	1. 2800E+02	1. 2619E+02	6. 7101E+02	1. 7800E+03	1. 3104E+00	6. 9278E+02
5. 0000E-01	1. 2589E+02	1. 2649E+02	6. 7202E+02	1. 7800E+03	1. 2751E+00	6. 9367E+02
5. 1000E-01	1. 2430E+02	1. 2679E+02	6. 7332E+02	1. 7800E+03	1. 2432E+00	6. 9442E+02
5. 2000E-01	1. 2217E+02	1. 2708E+02	6. 7436E+02	1. 7800E+03	1. 2145E+00	6. 9524E+02
5. 3000E-01	1. 2004E+02	1. 2736E+02	6. 7534E+02	1. 7800E+03	1. 1887E+00	6. 9603E+02
5. 4000E-01	1. 1793E+02	1. 2763E+02	6. 7624E+02	1. 7800E+03	1. 1656E+00	6. 9677E+02
5. 5000E-01	1. 1637E+02	1. 2789E+02	6. 7708E+02	1. 7800E+03	1. 1450E+00	6. 9750E+02
5. 6000E-01	1. 1431E+02	1. 2814E+02	6. 7787E+02	1. 7800E+03	1. 1268E+00	6. 9807E+02
5. 7000E-01	1. 1228E+02	1. 2838E+02	6. 7860E+02	1. 7800E+03	1. 1106E+00	6. 9847E+02
5. 8000E-01	1. 1079E+02	1. 2861E+02	6. 7927E+02	1. 7800E+03	1. 0956E+00	6. 9924E+02
5. 9000E-01	1. 0884E+02	1. 2883E+02	6. 7989E+02	1. 7800E+03	1. 0842E+00	6. 9982E+02
6. 0000E-01	1. 0694E+02	1. 2905E+02	6. 8047E+02	1. 7800E+03	1. 0735E+00	7. 0037E+02
6. 1000E-01	1. 0555E+02	1. 2925E+02	6. 8100E+02	1. 7800E+03	1. 0643E+00	7. 0082E+02
6. 2000E-01	1. 0374E+02	1. 2945E+02	6. 8149E+02	1. 7800E+03	1. 0565E+00	7. 0131E+02
6. 3000E-01	1. 0198E+02	1. 2963E+02	6. 8194E+02	1. 7800E+03	1. 0500E+00	7. 0177E+02
6. 4000E-01	1. 0027E+02	1. 2981E+02	6. 8235E+02	1. 7800E+03	1. 0447E+00	7. 0221E+02
6. 5000E-01	9. 9033E+01	1. 2999E+02	6. 8272E+02	1. 7800E+03	1. 0405E+00	7. 0256E+02
6. 6000E-01	9. 7438E+01	1. 3015E+02	6. 8307E+02	1. 7800E+03	1. 0372E+00	7. 0285E+02
6. 7000E-01	9. 5874E+01	1. 3031E+02	6. 8338E+02	1. 7800E+03	1. 0347E+00	7. 0331E+02
6. 8000E-01	9. 4746E+01	1. 3046E+02	6. 8366E+02	1. 7800E+03	1. 0331E+00	7. 0361E+02
6. 9000E-01	9. 3290E+01	1. 3060E+02	6. 8392E+02	1. 7800E+03	1. 0323E+00	7. 0393E+02
7. 0000E-01	9. 1870E+01	1. 3073E+02	6. 8415E+02	1. 7800E+03	1. 0320E+00	7. 0423E+02
7. 1000E-01	9. 0670E+01	1. 3086E+02	6. 8436E+02	1. 7800E+03	1. 0324E+00	7. 0447E+02
7. 2000E-01	8. 9599E+01	1. 3099E+02	6. 8455E+02	1. 7800E+03	1. 0333E+00	7. 0474E+02
7. 3000E-01	8. 8299E+01	1. 3110E+02	6. 8471E+02	1. 7800E+03	1. 0346E+00	7. 0499E+02
7. 4000E-01	8. 7090E+01	1. 3122E+02	6. 8486E+02	1. 7800E+03	1. 0364E+00	7. 0522E+02
7. 5000E-01	8. 6215E+01	1. 3132E+02	6. 8499E+02	1. 7800E+03	1. 0386E+00	7. 0541E+02
7. 6000E-01	8. 5090E+01	1. 3142E+02	6. 8511E+02	1. 7800E+03	1. 0410E+00	7. 0560E+02
7. 7000E-01	8. 4012E+01	1. 3152E+02	6. 8521E+02	1. 7800E+03	1. 0438E+00	7. 0589E+02
7. 8000E-01	8. 2344E+01	1. 3161E+02	6. 8529E+02	1. 7800E+03	1. 0468E+00	7. 0595E+02
7. 9000E-01	8. 2236E+01	1. 3170E+02	6. 8536E+02	1. 7800E+03	1. 0501E+00	7. 0611E+02
8. 0000E-01	8. 1281E+01	1. 3186E+02	6. 8543E+02	1. 7800E+03	1. 0535E+00	7. 0626E+02
8. 1000E-01	8. 0368E+01	1. 3193E+02	6. 8548E+02	1. 7800E+03	1. 0571E+00	7. 0641E+02
8. 2000E-01	7. 9710E+01	1. 3200E+02	6. 8552E+02	1. 7800E+03	1. 0609E+00	7. 0652E+02
8. 3000E-01	7. 8669E+01	1. 3206E+02	6. 8555E+02	1. 7800E+03	1. 0647E+00	7. 0664E+02
8. 4000E-01	7. 8065E+01	1. 3208E+02	6. 8557E+02	1. 7800E+03	1. 0686E+00	7. 0675E+02
8. 5000E-01	7. 7488E+01	1. 3213E+02	6. 8558E+02	1. 7800E+03	1. 0726E+00	7. 0684E+02
8. 6000E-01	7. 6749E+01	1. 3218E+02	6. 8560E+02	1. 7800E+03	1. 0767E+00	7. 0693E+02
8. 7000E-01	7. 6046E+01	1. 3224E+02	6. 8560E+02	1. 7800E+03	1. 0807E+00	7. 0702E+02
8. 8000E-01	7. 5541E+01	1. 3229E+02	6. 8559E+02	1. 7800E+03	1. 0848E+00	7. 0709E+02
8. 9000E-01	7. 4896E+01	1. 3234E+02	6. 8558E+02	1. 7800E+03	1. 0889E+00	7. 0716E+02
9. 0000E-01	7. 4284E+01	1. 3239E+02	6. 8557E+02	1. 7800E+03	1. 0930E+00	7. 0723E+02
9. 1000E-01	7. 3702E+01	1. 3243E+02	6. 8555E+02	1. 7800E+03	1. 0971E+00	7. 0729E+02
9. 2000E-01	7. 3285E+01	1. 3247E+02	6. 8553E+02	1. 7800E+03	1. 1011E+00	7. 0734E+02
9. 3000E-01	7. 2754E+01	1. 3251E+02	6. 8551E+02	1. 7800E+03	1. 1051E+00	7. 0734E+02
9. 4000E-01	7. 2251E+01	1. 3254E+02	6. 8548E+02	1. 7800E+03	1. 1091E+00	7. 0744E+02
9. 5000E-01	7. 1891E+01	1. 3258E+02	6. 8545E+02	1. 7800E+03	1. 1130E+00	7. 0744E+02
9. 6000E-01	7. 1433E+01	1. 3261E+02	6. 8542E+02	1. 7800E+03	1. 1168E+00	7. 0747E+02
9. 7000E-01	7. 1001E+01	1. 3264E+02	6. 8538E+02	1. 7800E+03	1. 1168E+00	7. 0751E+02
9. 8000E-01	7. 0692E+01	1. 3267E+02	6. 8534E+02	1. 7800E+03	1. 1206E+00	7. 0754E+02
9. 9000E-01	7. 0299E+01	1. 3269E+02	6. 8531E+02	1. 7800E+03	1. 1245E+00	7. 0757E+02
1. 0000E+00	6. 9929E+01	1. 3272E+02	6. 8527E+02	1. 7800E+03	1. 1279E+00	7. 0759E+02

Appendix #39.

ITERATIVE METHOD. TIME RESPONSE

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COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+02	2.5600E+01	7.4400E+01	1.7140E+00
1.8280E-02	2.1589E-10	3.3568E+03	2.7800E+01	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.8500E-06	2.0000E+01	5.5611E-01	1.7000E+08	6.2600E+01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	6.0000E+01						

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TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.0000E+00	1.0000E+01	-1.5578E-07	-1.4544E-03	-2.7681E-02	1.7791E-01	8.6189E-01	7.8389E-07
1.0000E-02	1.0000E+01	4.3032E-07	3.0523E-04	3.0108E-01	1.7943E-01	1.1982E+00	1.1630E-05
2.0000E-02	1.0000E+01	9.5484E-07	3.7326E-03	4.8318E-01	1.8343E-01	1.4004E+00	1.4837E-05
4.0000E-02	1.0000E+01	1.3872E-06	7.4260E-03	6.8075E-01	1.8681E-01	1.5248E+00	1.4615E-05
5.0000E-02	1.0000E+01	1.7297E-06	1.0776E-02	6.3242E-01	1.9491E-01	1.6089E+00	1.3098E-05
6.0000E-02	1.0000E+01	1.9945E-06	1.3582E-02	6.5927E-01	2.0138E-01	1.6662E+00	1.1345E-05
7.0000E-02	1.0000E+01	2.1940E-06	1.5823E-02	6.7187E-01	2.0804E-01	1.7121E+00	9.6849E-06
8.0000E-02	1.0000E+01	2.3393E-06	1.7547E-02	6.7839E-01	2.1494E-01	1.7493E+00	8.2120E-06
9.0000E-02	1.0000E+01	2.4398E-06	1.8726E-02	6.7536E-01	2.2153E-01	1.7802E+00	6.9378E-06
1.0000E-01	1.0000E+01	2.5029E-06	1.9720E-02	6.6505E-01	2.2822E-01	1.8062E+00	5.8514E-06
1.2000E-01	1.0000E+01	2.5375E-06	2.0311E-02	6.5029E-01	2.3482E-01	1.8281E+00	4.9327E-06
1.3000E-01	1.0000E+01	2.5435E-06	2.0638E-02	6.4018E-01	2.4129E-01	1.8467E+00	4.1575E-06
1.4000E-01	1.0000E+01	2.5274E-06	2.0748E-02	6.2478E-01	2.4762E-01	1.8623E+00	3.5081E-06
1.5000E-01	1.0000E+01	2.5024E-06	2.0685E-02	6.0671E-01	2.5377E-01	1.8756E+00	2.9660E-06
1.6000E-01	1.0000E+01	2.4687E-06	2.0481E-02	5.8802E-01	2.5975E-01	1.8868E+00	2.5133E-06
1.7000E-01	1.0000E+01	2.3485E-06	1.9759E-02	5.6850E-01	2.6553E-01	1.8962E+00	2.1350E-06
1.8000E-01	1.0000E+01	2.2823E-06	1.8794E-02	5.4843E-01	2.7112E-01	1.9040E+00	1.8189E-06
1.9000E-01	1.0000E+01	2.1373E-06	1.7594E-02	5.2802E-01	2.7650E-01	1.9105E+00	1.5531E-06
2.0000E-01	1.0000E+01	2.0608E-06	1.6184E-02	5.0745E-01	2.8168E-01	1.9158E+00	1.3287E-06
2.1000E-01	1.0000E+01	1.9830E-06	1.4684E-02	4.8687E-01	2.8665E-01	1.9201E+00	1.1376E-06
2.2000E-01	1.0000E+01	1.9044E-06	1.3300E-02	4.6639E-01	2.9141E-01	1.9235E+00	9.7349E-07
2.3000E-01	1.0000E+01	1.8258E-06	1.2047E-02	4.4611E-01	2.9598E-01	1.9260E+00	8.3181E-07
2.4000E-01	1.0000E+01	1.7475E-06	1.0944E-02	4.2611E-01	3.0034E-01	1.9278E+00	7.0833E-07
2.5000E-01	1.0000E+01	1.6700E-06	1.0047E-02	4.0646E-01	3.0450E-01	1.9290E+00	5.9941E-07
2.6000E-01	1.0000E+01	1.5936E-06	1.4007E-02	3.8721E-01	3.0847E-01	1.9296E+00	5.0301E-07
2.7000E-01	1.0000E+01	1.5185E-06	1.3772E-02	3.6840E-01	3.1225E-01	1.9295E+00	4.1783E-07
2.8000E-01	1.0000E+01	1.4451E-06	1.3146E-02	3.5007E-01	3.1584E-01	1.9293E+00	3.4129E-07
2.9000E-01	1.0000E+01	1.3735E-06	1.2530E-02	3.3225E-01	3.1925E-01	1.9285E+00	2.7219E-07
3.0000E-01	1.0000E+01	1.3037E-06	1.1927E-02	3.1497E-01	3.2248E-01	1.9274E+00	2.1113E-07
3.1000E-01	1.0000E+01	1.2360E-06	1.1335E-02	2.9820E-01	3.2555E-01	1.9260E+00	1.5592E-07
3.2000E-01	1.0000E+01	1.1704E-06	1.0766E-02	2.8245E-01	3.2845E-01	1.9243E+00	1.0586E-07
3.3000E-01	1.0000E+01	1.1070E-06	1.0209E-02	2.6647E-01	3.3119E-01	1.9224E+00	6.1324E-08
3.4000E-01	1.0000E+01	1.0458E-06	9.6695E-03	2.5145E-01	3.3378E-01	1.9204E+00	2.1628E-08
3.5000E-01	1.0000E+01	9.8697E-07	9.1476E-03	2.3700E-01	3.3622E-01	1.9181E+00	-1.4260E-08
3.6000E-01	1.0000E+01	9.3017E-07	8.6438E-03	2.2314E-01	3.3852E-01	1.9158E+00	-4.6378E-08
3.7000E-01	1.0000E+01	8.7519E-07	8.1593E-03	2.0984E-01	3.4069E-01	1.9133E+00	-7.4224E-08
3.8000E-01	1.0000E+01	8.2349E-07	7.6911E-03	1.9711E-01	3.4272E-01	1.9107E+00	-9.9197E-08
3.9000E-01	1.0000E+01	7.7448E-07	7.2424E-03	1.8446E-01	3.4463E-01	1.9081E+00	-1.2105E-07
4.0000E-01	1.0000E+01	7.2865E-07	6.8119E-03	1.7331E-01	3.4642E-01	1.9054E+00	-1.4042E-07
4.1000E-01	1.0000E+01	6.8595E-07	6.4119E-03	1.6222E-01	3.4810E-01	1.9027E+00	-1.5697E-07
4.2000E-01	1.0000E+01	6.4636E-07	6.0051E-03	1.5165E-01	3.4967E-01	1.9000E+00	-1.7151E-07
4.3000E-01	1.0000E+01	6.0981E-07	5.6281E-03	1.4159E-01	3.5114E-01	1.8973E+00	-1.8378E-07
4.4000E-01	1.0000E+01	5.7481E-07	5.2684E-03	1.3202E-01	3.5250E-01	1.8945E+00	-1.9388E-07
4.5000E-01	1.0000E+01	5.4081E-07	4.9255E-03	1.2293E-01	3.5378E-01	1.8916E+00	-2.0251E-07
4.6000E-01	1.0000E+01	5.0825E-07	4.5955E-03	1.1430E-01	3.5496E-01	1.8891E+00	-2.0972E-07

4.5000E-01	1.0000E+01	5.1764E-07	4.5990E-03	1.0613E-01	3.5606E-01	1.8665E+00	-2.1498E-07
4.6000E-01	1.0000E+01	4.9191E-07	4.2885E-03	9.8387E-02	3.5709E-01	1.8838E+00	-2.1918E-07
4.7000E-01	1.0000E+01	4.4800E-07	3.9934E-03	9.1055E-02	3.5803E-01	1.8812E+00	-2.2240E-07
4.8000E-01	1.0000E+01	4.1585E-07	3.7134E-03	8.4126E-02	3.5891E-01	1.8787E+00	-2.2429E-07
4.9000E-01	1.0000E+01	3.8541E-07	3.4478E-03	7.7587E-02	3.5972E-01	1.8762E+00	-2.2524E-07
5.0000E-01	1.0000E+01	3.5660E-07	3.1963E-03	7.1416E-02	3.6046E-01	1.8737E+00	-2.2550E-07
5.1000E-01	1.0000E+01	3.2937E-07	2.9582E-03	6.5600E-02	3.6115E-01	1.8713E+00	-2.2497E-07
5.2000E-01	1.0000E+01	3.0366E-07	2.7332E-03	6.0123E-02	3.6178E-01	1.8690E+00	-2.2357E-07
5.3000E-01	1.0000E+01	2.7940E-07	2.5206E-03	5.4972E-02	3.6235E-01	1.8667E+00	-2.2172E-07
5.4000E-01	1.0000E+01	2.5654E-07	2.3201E-03	5.0130E-02	3.6288E-01	1.8645E+00	-2.1945E-07
5.5000E-01	1.0000E+01	2.3502E-07	2.1310E-03	4.5586E-02	3.6335E-01	1.8624E+00	-2.1644E-07
5.6000E-01	1.0000E+01	2.1478E-07	1.9530E-03	4.1323E-02	3.6379E-01	1.8603E+00	-2.1312E-07
5.7000E-01	1.0000E+01	1.9575E-07	1.7855E-03	3.7331E-02	3.6418E-01	1.8582E+00	-2.0955E-07
5.8000E-01	1.0000E+01	1.7790E-07	1.6281E-03	3.3595E-02	3.6454E-01	1.8563E+00	-2.0557E-07
5.9000E-01	1.0000E+01	1.6116E-07	1.4804E-03	3.0107E-02	3.6485E-01	1.8544E+00	-2.0123E-07
6.0000E-01	1.0000E+01	1.4548E-07	1.3418E-03	2.6847E-02	3.6514E-01	1.8525E+00	-1.9688E-07
6.1000E-01	1.0000E+01	1.3080E-07	1.2120E-03	2.3803E-02	3.6539E-01	1.8508E+00	-1.9229E-07
6.2000E-01	1.0000E+01	1.1709E-07	1.0905E-03	2.0970E-02	3.6562E-01	1.8490E+00	-1.8744E-07
6.3000E-01	1.0000E+01	1.0429E-07	9.7686E-04	1.8306E-02	3.6581E-01	1.8474E+00	-1.8254E-07
6.4000E-01	1.0000E+01	9.2367E-08	8.7084E-04	1.5890E-02	3.6598E-01	1.8458E+00	-1.7759E-07
6.5000E-01	1.0000E+01	8.1251E-08	7.7208E-04	1.3627E-02	3.6613E-01	1.8443E+00	-1.7248E-07
6.6000E-01	1.0000E+01	7.0920E-08	6.8001E-04	1.1521E-02	3.6628E-01	1.8428E+00	-1.6736E-07
6.7000E-01	1.0000E+01	6.1322E-08	5.9437E-04	9.5783E-03	3.6636E-01	1.8414E+00	-1.6225E-07
6.8000E-01	1.0000E+01	5.2432E-08	5.1484E-04	7.7854E-03	3.6645E-01	1.8400E+00	-1.5711E-07
6.9000E-01	1.0000E+01	4.4197E-08	4.4107E-04	6.1335E-03	3.6652E-01	1.8387E+00	-1.5195E-07
7.0000E-01	1.0000E+01	3.6588E-08	3.7276E-04	4.6146E-03	3.6657E-01	1.8375E+00	-1.4686E-07
7.1000E-01	1.0000E+01	2.9583E-08	3.0961E-04	3.2207E-03	3.6661E-01	1.8363E+00	-1.4182E-07
7.2000E-01	1.0000E+01	2.3095E-08	2.5132E-04	1.9445E-03	3.6664E-01	1.8351E+00	-1.3678E-07
7.3000E-01	1.0000E+01	1.7150E-08	1.9782E-04	7.7894E-04	3.6665E-01	1.8340E+00	-1.3183E-07
7.4000E-01	1.0000E+01	1.1697E-08	1.4824E-04	2.8284E-04	3.6665E-01	1.8330E+00	-1.2697E-07
7.5000E-01	1.0000E+01	6.7070E-09	1.0293E-04	1.2473E-03	3.6664E-01	1.8320E+00	-1.2217E-07
7.6000E-01	1.0000E+01	2.1516E-08	6.1456E-05	2.1204E-03	3.6663E-01	1.8310E+00	-1.1745E-07
7.7000E-01	1.0000E+01	1.9957E-09	2.3578E-05	2.9082E-03	3.6660E-01	1.8301E+00	-1.1284E-07
7.8000E-01	1.0000E+01	1.9957E-09	2.3578E-05	3.6162E-03	3.6657E-01	1.8292E+00	-1.0832E-07
7.9000E-01	1.0000E+01	1.9957E-09	2.3578E-05	4.2486E-03	3.6653E-01	1.8284E+00	-1.0390E-07
8.0000E-01	1.0000E+01	1.9957E-09	2.3578E-05	4.8134E-03	3.6648E-01	1.8276E+00	-9.9587E-08
8.1000E-01	1.0000E+01	1.9957E-09	2.3578E-05	5.3124E-03	3.6643E-01	1.8269E+00	-9.5287E-08
8.2000E-01	1.0000E+01	1.9957E-09	2.3578E-05	5.7511E-03	3.6638E-01	1.8261E+00	-9.1095E-08
8.3000E-01	1.0000E+01	1.9957E-09	2.3578E-05	6.1339E-03	3.6632E-01	1.8255E+00	-8.7017E-08
8.4000E-01	1.0000E+01	1.9957E-09	2.3578E-05	6.4643E-03	3.6626E-01	1.8248E+00	-8.3055E-08
8.5000E-01	1.0000E+01	1.9957E-09	2.3578E-05	6.7467E-03	3.6619E-01	1.8242E+00	-7.9206E-08
8.6000E-01	1.0000E+01	1.9957E-09	2.3578E-05	7.0844E-03	3.6612E-01	1.8236E+00	-7.5473E-08
8.7000E-01	1.0000E+01	1.9957E-09	2.3578E-05	7.4809E-03	3.6605E-01	1.8231E+00	-7.1856E-08
8.8000E-01	1.0000E+01	1.9957E-09	2.3578E-05	7.9393E-03	3.6600E-01	1.8225E+00	-6.8351E-08
8.9000E-01	1.0000E+01	1.9957E-09	2.3578E-05	8.4627E-03	3.6598E-01	1.8221E+00	-6.4965E-08
9.0000E-01	1.0000E+01	1.9957E-09	2.3578E-05	9.0540E-03	3.6593E-01	1.8216E+00	-6.1698E-08
9.1000E-01	1.0000E+01	1.9957E-09	2.3578E-05	9.7157E-03	3.6588E-01	1.8211E+00	-5.8552E-08
9.2000E-01	1.0000E+01	1.9957E-09	2.3578E-05	1.0449E-02	3.6583E-01	1.8207E+00	-5.5526E-08
9.3000E-01	1.0000E+01	1.9957E-09	2.3578E-05	1.1270E-02	3.6578E-01	1.8203E+00	-5.2611E-08
9.4000E-01	1.0000E+01	1.9957E-09	2.3578E-05	1.2124E-02	3.6572E-01	1.8200E+00	-4.9808E-08
9.5000E-01	1.0000E+01	1.9957E-09	2.3578E-05	1.3006E-02	3.6565E-01	1.8196E+00	-4.7119E-08
9.6000E-01	1.0000E+01	1.9957E-09	2.3578E-05	1.3913E-02	3.6557E-01	1.8193E+00	-4.4548E-08
9.7000E-01	1.0000E+01	1.9957E-09	2.3578E-05	1.4842E-02	3.6547E-01	1.8190E+00	-4.2093E-08
9.8000E-01	1.0000E+01	1.9957E-09	2.3578E-05	1.5790E-02	3.6535E-01	1.8187E+00	-3.9844E-08
9.9000E-01	1.0000E+01	1.9957E-09	2.3578E-05	1.6755E-02	3.6522E-01	1.8184E+00	-3.7791E-08
1.0000E+00	1.0000E+01	1.9957E-09	2.3578E-05	1.7734E-02	3.6507E-01	1.8182E+00	-3.5922E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
0.0000E+00	9.5975E-10	6.2807E-07	2.5730E-02	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.0000E-01	9.9975E-10	6.5741E-07	2.5730E-02	4.1040E+00	7.1801E+02	7.4400E+01	7.1400E+01
2.0000E-02	1.0809E-09	6.6185E-07	2.8156E-02	4.4816E+00	7.2754E+02	4.4944E+01	4.0903E+03
3.0000E-02	1.1691E-09	6.5514E-07	2.8156E-02	4.5254E+00	7.3640E+02	5.6455E+01	4.6196E+03
4.0000E-02	1.2511E-09	6.4894E-07	2.8423E-02	4.5372E+00	7.3868E+02	6.1182E+01	5.2310E+03
5.0000E-02	1.3232E-09	6.4773E-07	2.8423E-02	4.5386E+00	7.3890E+02	6.3562E+01	5.7928E+03
6.0000E-02	1.3852E-09	6.4734E-07	2.8462E-02	4.5391E+00	7.3895E+02	6.6575E+01	6.2765E+03
7.0000E-02	1.4375E-09	6.4780E-07	2.8477E-02	4.5403E+00	7.3915E+02	6.8548E+01	6.6858E+03
8.0000E-02	1.4825E-09	6.4848E-07	2.8505E-02	4.5428E+00	7.3945E+02	6.7595E+01	7.0306E+03
9.0000E-02	1.5201E-09	6.4918E-07	2.8524E-02	4.5460E+00	7.4000E+02	6.9375E+01	7.3212E+03
1.0000E-01	1.5518E-09	6.4980E-07	2.8545E-02	4.5498E+00	7.4063E+02	6.9375E+01	7.5680E+03
1.0000E-01	1.5786E-09	6.5022E-07	2.8565E-02	4.5533E+00	7.4128E+02	7.0083E+01	7.7723E+03
1.0000E-01	1.6012E-09	6.5050E-07	2.8584E-02	4.5567E+00	7.4174E+02	7.0541E+01	7.9466E+03
1.0000E-01	1.6202E-09	6.5068E-07	2.8601E-02	4.5597E+00	7.4227E+02	7.1069E+01	8.0938E+03
1.0000E-01	1.6363E-09	6.5072E-07	2.8615E-02	4.5622E+00	7.4271E+02	7.1517E+01	8.2184E+03
1.0000E-01	1.6500E-09	6.5076E-07	2.8626E-02	4.5640E+00	7.4297E+02	7.1823E+01	8.3243E+03
1.0000E-01	1.6616E-09	6.5056E-07	2.8639E-02	4.5653E+00	7.4321E+02	7.2167E+01	8.4145E+03
1.0000E-01	1.6716E-09	6.5039E-07	2.8640E-02	4.5664E+00	7.4336E+02	7.2455E+01	8.4915E+03
1.0000E-01	1.6810E-09	6.5018E-07	2.8640E-02	4.5662E+00	7.4340E+02	7.2691E+01	8.5575E+03
1.0000E-01	1.6873E-09	6.4994E-07	2.8640E-02	4.5657E+00	7.4331E+02	7.2911E+01	8.6142E+03
2.0000E-01	1.6935E-09	6.4988E-07	2.8637E-02	4.5649E+00	7.4316E+02	7.3090E+01	8.6629E+03
2.0000E-01	1.6988E-09	6.4941E-07	2.8626E-02	4.5638E+00	7.4302E+02	7.3403E+01	8.7048E+03
2.0000E-01	1.7034E-09	6.4914E-07	2.8619E-02	4.5625E+00	7.4280E+02	7.3501E+01	8.7409E+03
2.0000E-01	1.7072E-09	6.4866E-07	2.8619E-02	4.5611E+00	7.4255E+02	7.3574E+01	8.7982E+03
2.0000E-01	1.7105E-09	6.4858E-07	2.8610E-02	4.5595E+00	7.4235E+02	7.3695E+01	8.8206E+03
2.0000E-01	1.7132E-09	6.4832E-07	2.8602E-02	4.5579E+00	7.4207E+02	7.3731E+01	8.8395E+03
2.0000E-01	1.7154E-09	6.4806E-07	2.8592E-02	4.5563E+00	7.4178E+02	7.3750E+01	8.8557E+03
2.0000E-01	1.7172E-09	6.4779E-07	2.8579E-02	4.5546E+00	7.4149E+02	7.3754E+01	8.8681E+03
2.0000E-01	1.7187E-09	6.4756E-07	2.8573E-02	4.5529E+00	7.4126E+02	7.3819E+01	8.8783E+03
2.0000E-01	1.7197E-09	6.4733E-07	2.8563E-02	4.5513E+00	7.4097E+02	7.3797E+01	8.8862E+03
3.0000E-01	1.7205E-09	6.4709E-07	2.8553E-02	4.5496E+00	7.4068E+02	7.3766E+01	8.8922E+03
3.0000E-01	1.7210E-09	6.4688E-07	2.8544E-02	4.5480E+00	7.4047E+02	7.3766E+01	8.8962E+03
3.0000E-01	1.7212E-09	6.4668E-07	2.8535E-02	4.5465E+00	7.4019E+02	7.3747E+01	8.8944E+03
3.0000E-01	1.7213E-09	6.4648E-07	2.8525E-02	4.5449E+00	7.3993E+02	7.3692E+01	8.8930E+03
3.0000E-01	1.7211E-09	6.4629E-07	2.8517E-02	4.5435E+00	7.3973E+02	7.3695E+01	8.8930E+03
3.0000E-01	1.7207E-09	6.4612E-07	2.8508E-02	4.5421E+00	7.3948E+02	7.3627E+01	8.8968E+03
3.0000E-01	1.7202E-09	6.4595E-07	2.8500E-02	4.5407E+00	7.3925E+02	7.3556E+01	8.8970E+03
3.0000E-01	1.7196E-09	6.4578E-07	2.8492E-02	4.5394E+00	7.3902E+02	7.3483E+01	8.8940E+03
3.0000E-01	1.7188E-09	6.4564E-07	2.8485E-02	4.5382E+00	7.3885E+02	7.3459E+01	8.8905E+03
4.0000E-01	1.7169E-09	6.4537E-07	2.8478E-02	4.5371E+00	7.3865E+02	7.3380E+01	8.8856E+03
4.0000E-01	1.7159E-09	6.4524E-07	2.8461E-02	4.5360E+00	7.3846E+02	7.3299E+01	8.8805E+03
4.0000E-01	1.7148E-09	6.4513E-07	2.8444E-02	4.5349E+00	7.3832E+02	7.3262E+01	8.8680E+03
4.0000E-01	1.7136E-09	6.4502E-07	2.8426E-02	4.5338E+00	7.3814E+02	7.3178E+01	8.8611E+03
4.0000E-01	1.7125E-09	6.4491E-07	2.8408E-02	4.5330E+00	7.3798E+02	7.3094E+01	8.8537E+03
4.0000E-01	1.7124E-09	6.4481E-07	2.8447E-02	4.5331E+00	7.3786E+02	7.3049E+01	8.8460E+03
4.0000E-01	1.7117E-09	6.4482E-07	2.8442E-02	4.5313E+00	7.3771E+02	7.2964E+01	8.8380E+03
4.0000E-01	1.7098E-09	6.4473E-07	2.8437E-02	4.5305E+00	7.3757E+02	7.2881E+01	8.8299E+03

4.7000E-01 1.7085E-09 6.4164E-07 2.6432E-02 4.5288E+00 7.3745E+02 7.2799E+01 8.8216E+03  
4.8000E-01 1.7072E-09 6.4456E-07 2.6448E-02 4.5291E+00 7.3747E+02 7.2747E+01 8.8131E+03  
4.9000E-01 1.7059E-09 6.4491E-07 2.6442E-02 4.5284E+00 7.3742E+02 7.2666E+01 8.8046E+03  
5.0000E-01 1.7045E-09 6.4432E-07 2.6440E-02 4.5278E+00 7.3713E+02 7.2587E+01 8.7960E+03  
5.1000E-01 1.7032E-09 6.4435E-07 2.6417E-02 4.5273E+00 7.3706E+02 7.2534E+01 8.7874E+03  
5.2000E-01 1.7019E-09 6.4430E-07 2.6414E-02 4.5267E+00 7.3698E+02 7.2456E+01 8.7789E+03  
5.3000E-01 1.7006E-09 6.4424E-07 2.6410E-02 4.5262E+00 7.3688E+02 7.2381E+01 8.7703E+03  
5.4000E-01 1.6993E-09 6.4419E-07 2.6408E-02 4.5258E+00 7.3680E+02 7.2308E+01 8.7619E+03  
5.5000E-01 1.6987E-09 6.4415E-07 2.6405E-02 4.5254E+00 7.3674E+02 7.2255E+01 8.7536E+03  
5.6000E-01 1.6985E-09 6.4410E-07 2.6402E-02 4.5250E+00 7.3667E+02 7.2185E+01 8.7453E+03  
5.7000E-01 1.6983E-09 6.4406E-07 2.6400E-02 4.5248E+00 7.3661E+02 7.2117E+01 8.7372E+03  
5.8000E-01 1.6981E-09 6.4403E-07 2.6398E-02 4.5243E+00 7.3656E+02 7.2066E+01 8.7292E+03  
5.9000E-01 1.6931E-09 6.4400E-07 2.6396E-02 4.5240E+00 7.3651E+02 7.2001E+01 8.7214E+03  
6.0000E-01 1.6919E-09 6.4396E-07 2.6394E-02 4.5237E+00 7.3646E+02 7.1936E+01 8.7137E+03  
6.1000E-01 1.6907E-09 6.4393E-07 2.6393E-02 4.5233E+00 7.3642E+02 7.1890E+01 8.7062E+03  
6.2000E-01 1.6896E-09 6.4391E-07 2.6391E-02 4.5232E+00 7.3638E+02 7.1890E+01 8.6989E+03  
6.3000E-01 1.6885E-09 6.4389E-07 2.6390E-02 4.5231E+00 7.3634E+02 7.1891E+01 8.6917E+03  
6.4000E-01 1.6875E-09 6.4387E-07 2.6388E-02 4.5229E+00 7.3630E+02 7.1720E+01 8.6847E+03  
6.5000E-01 1.6864E-09 6.4384E-07 2.6387E-02 4.5227E+00 7.3628E+02 7.1676E+01 8.6780E+03  
6.6000E-01 1.6854E-09 6.4381E-07 2.6386E-02 4.5224E+00 7.3625E+02 7.1625E+01 8.6714E+03  
6.7000E-01 1.6845E-09 6.4380E-07 2.6385E-02 4.5222E+00 7.3622E+02 7.1576E+01 8.6650E+03  
6.8000E-01 1.6835E-09 6.4380E-07 2.6384E-02 4.5221E+00 7.3620E+02 7.1535E+01 8.6588E+03  
6.9000E-01 1.6826E-09 6.4379E-07 2.6383E-02 4.5220E+00 7.3618E+02 7.1489E+01 8.6528E+03  
7.0000E-01 1.6817E-09 6.4378E-07 2.6382E-02 4.5219E+00 7.3616E+02 7.1445E+01 8.6470E+03  
7.1000E-01 1.6809E-09 6.4378E-07 2.6381E-02 4.5217E+00 7.3614E+02 7.1408E+01 8.6414E+03  
7.2000E-01 1.6801E-09 6.4378E-07 2.6381E-02 4.5216E+00 7.3613E+02 7.1367E+01 8.6360E+03  
7.3000E-01 1.6793E-09 6.4378E-07 2.6380E-02 4.5215E+00 7.3611E+02 7.1328E+01 8.6308E+03  
7.4000E-01 1.6785E-09 6.4378E-07 2.6380E-02 4.5214E+00 7.3610E+02 7.1291E+01 8.6257E+03  
7.5000E-01 1.6778E-09 6.4378E-07 2.6380E-02 4.5214E+00 7.3609E+02 7.1259E+01 8.6209E+03  
7.6000E-01 1.6771E-09 6.4378E-07 2.6380E-02 4.5214E+00 7.3608E+02 7.1225E+01 8.6162E+03  
7.7000E-01 1.6764E-09 6.4378E-07 2.6379E-02 4.5213E+00 7.3607E+02 7.1192E+01 8.6117E+03  
7.8000E-01 1.6757E-09 6.4378E-07 2.6378E-02 4.5213E+00 7.3607E+02 7.1163E+01 8.6074E+03  
7.9000E-01 1.6751E-09 6.4378E-07 2.6378E-02 4.5213E+00 7.3606E+02 7.1133E+01 8.6033E+03  
8.0000E-01 1.6745E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3606E+02 7.1105E+01 8.5993E+03  
8.1000E-01 1.6739E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.1078E+01 8.5955E+03  
8.2000E-01 1.6734E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.1052E+01 8.5918E+03  
8.3000E-01 1.6728E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.1029E+01 8.5883E+03  
8.4000E-01 1.6723E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.1009E+01 8.5850E+03  
8.5000E-01 1.6719E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.0983E+01 8.5818E+03  
8.6000E-01 1.6714E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.0942E+01 8.5789E+03  
8.7000E-01 1.6710E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.0923E+01 8.5731E+03  
8.8000E-01 1.6705E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.0888E+01 8.5679E+03  
8.9000E-01 1.6702E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.0872E+01 8.5632E+03  
9.0000E-01 1.6698E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.0856E+01 8.5585E+03  
9.1000E-01 1.6694E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.0841E+01 8.5511E+03  
9.2000E-01 1.6691E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.0814E+01 8.5590E+03  
9.3000E-01 1.6687E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3605E+02 7.0828E+01 8.5519E+03  
9.4000E-01 1.6684E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3606E+02 7.0814E+01 8.5571E+03  
9.5000E-01 1.6681E-09 6.4378E-07 2.6378E-02 4.5212E+00 7.3606E+02 7.0802E+01 8.5524E+03  
9.6000E-01 1.6678E-09 6.4378E-07 2.6378E-02 4.5213E+00 7.3607E+02 7.0790E+01 8.5534E+03  
9.7000E-01 1.6676E-09 6.4378E-07 2.6379E-02 4.5213E+00 7.3607E+02 7.0779E+01 8.5516E+03  
9.8000E-01 1.6673E-09 6.4378E-07 2.6379E-02 4.5213E+00 7.3607E+02 7.0768E+01 8.5502E+03  
9.9000E-01 1.6671E-09 6.4378E-07 2.6379E-02 4.5213E+00 7.3607E+02 7.0759E+01 8.5487E+03  
1.0000E+00 1.6669E-09 6.4378E-07 2.6379E-02 4.5213E+00 7.3608E+02 7.0759E+01 8.5467E+03



4.7000E-01	2.4842E+00	7.9502E+01	1.9803E-05	1.0000E+01	-1.6734E-09	3.7887E-06	4.7108E-07
4.8000E-01	2.3970E+00	7.9526E+01	1.9808E-05	1.0000E+01	1.2582E-09	3.7887E-06	4.7507E-07
5.0000E-01	2.3108E+00	7.9550E+01	1.9813E-05	1.0000E+01	9.3798E-09	3.7887E-06	4.7974E-07
5.1000E-01	2.2572E+00	7.9572E+01	1.9818E-05	1.0000E+01	5.0833E-09	3.7888E-06	4.8418E-07
5.2000E-01	2.1415E+00	7.9594E+01	1.9824E-05	1.0000E+01	1.1137E-08	3.7889E-06	4.8769E-07
5.3000E-01	2.0592E+00	7.9615E+01	1.9830E-05	1.0000E+01	1.4162E-08	3.7890E-06	4.9174E-07
5.4000E-01	1.9783E+00	7.9635E+01	1.9835E-05	1.0000E+01	1.6844E-08	3.7892E-06	4.9558E-07
5.5000E-01	1.8911E+00	7.9655E+01	1.9841E-05	1.0000E+01	1.9205E-08	3.7894E-06	4.9921E-07
5.6000E-01	1.8114E+00	7.9673E+01	1.9846E-05	1.0000E+01	2.0323E-08	3.7896E-06	5.0212E-07
5.7000E-01	1.7466E+00	7.9691E+01	1.9851E-05	1.0000E+01	2.1177E-08	3.7898E-06	5.0541E-07
5.8000E-01	1.6917E+00	7.9708E+01	1.9857E-05	1.0000E+01	2.3773E-08	3.7900E-06	5.0851E-07
5.9000E-01	1.5998E+00	7.9725E+01	1.9862E-05	1.0000E+01	2.4327E-08	3.7902E-06	5.1102E-07
6.0000E-01	1.5297E+00	7.9740E+01	1.9867E-05	1.0000E+01	2.5575E-08	3.7905E-06	5.1381E-07
6.1000E-01	1.4616E+00	7.9755E+01	1.9872E-05	1.0000E+01	2.6584E-08	3.7908E-06	5.1645E-07
6.2000E-01	1.3958E+00	7.9770E+01	1.9877E-05	1.0000E+01	2.7979E-08	3.7910E-06	5.1860E-07
6.3000E-01	1.3318E+00	7.9783E+01	1.9882E-05	1.0000E+01	2.7484E-08	3.7913E-06	5.2095E-07
6.4000E-01	1.2699E+00	7.9796E+01	1.9886E-05	1.0000E+01	2.7484E-08	3.7916E-06	5.2317E-07
6.5000E-01	1.2101E+00	7.9809E+01	1.9891E-05	1.0000E+01	2.7689E-08	3.7919E-06	5.2525E-07
6.6000E-01	1.1522E+00	7.9820E+01	1.9895E-05	1.0000E+01	2.8338E-08	3.7921E-06	5.2698E-07
6.7000E-01	1.0963E+00	7.9832E+01	1.9900E-05	1.0000E+01	2.8162E-08	3.7924E-06	5.2883E-07
6.8000E-01	1.0424E+00	7.9842E+01	1.9904E-05	1.0000E+01	2.8314E-08	3.7927E-06	5.3057E-07
6.9000E-01	9.9051E-01	7.9852E+01	1.9908E-05	1.0000E+01	2.8355E-08	3.7930E-06	5.3202E-07
7.0000E-01	9.4048E-01	7.9862E+01	1.9912E-05	1.0000E+01	2.7988E-08	3.7933E-06	5.3356E-07
7.1000E-01	8.9237E-01	7.9872E+01	1.9916E-05	1.0000E+01	2.7866E-08	3.7936E-06	5.3500E-07
7.2000E-01	8.4615E-01	7.9882E+01	1.9920E-05	1.0000E+01	2.7187E-08	3.7938E-06	5.3522E-07
7.3000E-01	8.0169E-01	7.9892E+01	1.9923E-05	1.0000E+01	2.6848E-08	3.7941E-06	5.3749E-07
7.4000E-01	7.5904E-01	7.9902E+01	1.9927E-05	1.0000E+01	2.6473E-08	3.7944E-06	5.3868E-07
7.5000E-01	7.1815E-01	7.9912E+01	1.9930E-05	1.0000E+01	2.6044E-08	3.7946E-06	5.3978E-07
7.6000E-01	6.7894E-01	7.9922E+01	1.9934E-05	1.0000E+01	2.5433E-08	3.7949E-06	5.4073E-07
7.7000E-01	6.4136E-01	7.9932E+01	1.9937E-05	1.0000E+01	2.4937E-08	3.7951E-06	5.4170E-07
7.8000E-01	6.0545E-01	7.9942E+01	1.9940E-05	1.0000E+01	2.4405E-08	3.7954E-06	5.4258E-07
7.9000E-01	5.7109E-01	7.9952E+01	1.9943E-05	1.0000E+01	2.3758E-08	3.7956E-06	5.4338E-07
8.0000E-01	5.3822E-01	7.9962E+01	1.9946E-05	1.0000E+01	2.3186E-08	3.7959E-06	5.4416E-07
8.1000E-01	5.0685E-01	7.9972E+01	1.9949E-05	1.0000E+01	2.2692E-08	3.7961E-06	5.4488E-07
8.2000E-01	4.7691E-01	7.9982E+01	1.9951E-05	1.0000E+01	2.1981E-08	3.7963E-06	5.4556E-07
8.3000E-01	4.4835E-01	7.9992E+01	1.9954E-05	1.0000E+01	2.1319E-08	3.7965E-06	5.4615E-07
8.4000E-01	4.2113E-01	7.9995E+01	1.9956E-05	1.0000E+01	2.0694E-08	3.7967E-06	5.4673E-07
8.5000E-01	3.9520E-01	7.9998E+01	1.9958E-05	1.0000E+01	2.0061E-08	3.7969E-06	5.4726E-07
8.6000E-01	3.7053E-01	7.9996E+01	1.9961E-05	1.0000E+01	1.9413E-08	3.7971E-06	5.4775E-07
8.7000E-01	3.4747E-01	7.9995E+01	1.9963E-05	1.0000E+01	1.8780E-08	3.7973E-06	5.4820E-07
8.8000E-01	3.2474E-01	7.9996E+01	1.9965E-05	1.0000E+01	1.8147E-08	3.7975E-06	5.4862E-07
8.9000E-01	3.0355E-01	7.9997E+01	1.9967E-05	1.0000E+01	1.7525E-08	3.7977E-06	5.4901E-07
9.0000E-01	2.8344E-01	7.9997E+01	1.9969E-05	1.0000E+01	1.6902E-08	3.7979E-06	5.4936E-07
9.1000E-01	2.6436E-01	7.9997E+01	1.9971E-05	1.0000E+01	1.6284E-08	3.7980E-06	5.4965E-07
9.2000E-01	2.4627E-01	7.9998E+01	1.9972E-05	1.0000E+01	1.5671E-08	3.7982E-06	5.4992E-07
9.3000E-01	2.2914E-01	7.9998E+01	1.9974E-05	1.0000E+01	1.5094E-08	3.7983E-06	5.5026E-07
9.4000E-01	2.1292E-01	7.9998E+01	1.9976E-05	1.0000E+01	1.4504E-08	3.7985E-06	5.5058E-07
9.5000E-01	1.9738E-01	7.9997E+01	1.9977E-05	1.0000E+01	1.3921E-08	3.7986E-06	5.5072E-07
9.6000E-01	1.8309E-01	7.9999E+01	1.9978E-05	1.0000E+01	1.3387E-08	3.7988E-06	5.5094E-07
9.7000E-01	1.6940E-01	7.9990E+01	1.9980E-05	1.0000E+01	1.2829E-08	3.7989E-06	5.5112E-07
9.8000E-01	1.5648E-01	7.9992E+01	1.9981E-05	1.0000E+01	1.2293E-08	3.7990E-06	5.5128E-07
9.9000E-01	1.4429E-01	7.9993E+01	1.9982E-05	1.0000E+01	1.1793E-08	3.7991E-06	5.5144E-07
1.0000E+00	1.3281E-01	7.9995E+01	1.9983E-05	1.0000E+01	1.1275E-08	3.7993E-06	5.5157E-07
	1.2201E-01	7.9996E+01	1.9985E-05	1.0000E+01	1.0787E-08	3.7994E-06	5.5166E-07



ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE	27 VARIABLE	28 VARIABLE
0.0000E+00	1.2481E+00	6.9500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.0000E-02	1.1893E+00	0.0000E+00	1.6940E+03	0.0000E+00	2.5600E+01	7.4400E+01	1.7140E+00
2.0000E-02	9.8692E-01	3.3566E+00	2.7800E+01	1.7760E-02	3.5600E+03	7.4400E+01	1.8500E-06
3.0000E-02	9.1732E-01	5.1348E+01	1.3273E+02	6.7995E+02	3.5600E+03	1.233E+00	7.1331E+02
4.0000E-02	9.9876E-01	5.4436E+01	1.3261E+02	6.7746E+02	3.5600E+03	1.3340E+00	7.1358E+02
5.0000E-02	1.1459E+00	6.2986E+01	1.3258E+02	6.7534E+02	3.5600E+03	1.5351E+00	7.1323E+02
6.0000E-02	1.2873E+00	7.1672E+01	1.3258E+02	6.7371E+02	3.5600E+03	1.5328E+00	7.1303E+02
7.0000E-02	1.3872E+00	7.8555E+01	1.3264E+02	6.7185E+02	3.5600E+03	1.5252E+00	7.1314E+02
8.0000E-02	1.4349E+00	8.0110E+01	1.3270E+02	6.7145E+02	3.5600E+03	1.7192E+00	7.1349E+02
9.0000E-02	1.4349E+00	8.0482E+01	1.3278E+02	6.7126E+02	3.5600E+03	1.6676E+00	7.1408E+02
1.0000E-01	1.3977E+00	7.8300E+01	1.3285E+02	6.7120E+02	3.5600E+03	1.6676E+00	7.1479E+02
1.2000E-01	1.3344E+00	7.5529E+01	1.3290E+02	6.7119E+02	3.5600E+03	1.9369E+00	7.1553E+02
1.3000E-01	1.1725E+00	7.0922E+01	1.3294E+02	6.7120E+02	3.5600E+03	2.0007E+00	7.1619E+02
1.4000E-01	1.1256E+00	6.5866E+01	1.3295E+02	6.7119E+02	3.5600E+03	2.0593E+00	7.1685E+02
1.5000E-01	1.0891E+00	6.2050E+01	1.3295E+02	6.7119E+02	3.5600E+03	2.1130E+00	7.1742E+02
1.6000E-01	1.0107E+00	5.7236E+01	1.3292E+02	6.7105E+02	3.5600E+03	2.1821E+00	7.1786E+02
1.7000E-01	9.4029E-01	5.2918E+01	1.3286E+02	6.7090E+02	3.5600E+03	2.2069E+00	7.1823E+02
1.8000E-01	8.7829E-01	5.0076E+01	1.3281E+02	6.7071E+02	3.5600E+03	2.2478E+00	7.1851E+02
1.9000E-01	8.2811E-01	4.6853E+01	1.3275E+02	6.7048E+02	3.5600E+03	2.2851E+00	7.1869E+02
2.0000E-01	7.8690E-01	4.4232E+01	1.3264E+02	6.7022E+02	3.5600E+03	2.3190E+00	7.1869E+02
2.1000E-01	7.5470E-01	4.2242E+01	1.3253E+02	6.6993E+02	3.5600E+03	2.3499E+00	7.1880E+02
2.2000E-01	7.3085E-01	4.1170E+01	1.3242E+02	6.6962E+02	3.5600E+03	2.3779E+00	7.1884E+02
2.3000E-01	7.1435E-01	4.0098E+01	1.3230E+02	6.6930E+02	3.5600E+03	2.4032E+00	7.1876E+02
2.4000E-01	7.0405E-01	3.8446E+01	1.3219E+02	6.6898E+02	3.5600E+03	2.4262E+00	7.1865E+02
2.5000E-01	6.9915E-01	3.8192E+01	1.3208E+02	6.6866E+02	3.5600E+03	2.4566E+00	7.1851E+02
2.6000E-01	6.8765E-01	3.9114E+01	1.3194E+02	6.6834E+02	3.5600E+03	2.4856E+00	7.1838E+02
2.7000E-01	7.0192E-01	3.9281E+01	1.3182E+02	6.6803E+02	3.5600E+03	2.4975E+00	7.1820E+02
2.8000E-01	7.1640E-01	3.9643E+01	1.3170E+02	6.6773E+02	3.5600E+03	2.4975E+00	7.1800E+02
2.9000E-01	7.2662E-01	4.0618E+01	1.3158E+02	6.6744E+02	3.5600E+03	2.5110E+00	7.1783E+02
3.0000E-01	7.3812E-01	4.1312E+01	1.3147E+02	6.6717E+02	3.5600E+03	2.5229E+00	7.1763E+02
3.1000E-01	7.5069E-01	4.1872E+01	1.3135E+02	6.6691E+02	3.5600E+03	2.5336E+00	7.1743E+02
3.2000E-01	7.6402E-01	4.2673E+01	1.3124E+02	6.6667E+02	3.5600E+03	2.5430E+00	7.1722E+02
3.3000E-01	7.7773E-01	4.3502E+01	1.3114E+02	6.6645E+02	3.5600E+03	2.5430E+00	7.1705E+02
3.4000E-01	7.9168E-01	4.4138E+01	1.3104E+02	6.6623E+02	3.5600E+03	2.5512E+00	7.1686E+02
3.5000E-01	8.0568E-01	4.4980E+01	1.3094E+02	6.6601E+02	3.5600E+03	2.5647E+00	7.1667E+02
3.6000E-01	8.1999E-01	4.5844E+01	1.3085E+02	6.6579E+02	3.5600E+03	2.5701E+00	7.1651E+02
3.7000E-01	8.3392E-01	4.6691E+01	1.3076E+02	6.6558E+02	3.5600E+03	2.5746E+00	7.1634E+02
3.8000E-01	8.4776E-01	4.7318E+01	1.3069E+02	6.6540E+02	3.5600E+03	2.5785E+00	7.1617E+02
3.9000E-01	8.6133E-01	4.8140E+01	1.3059E+02	6.6527E+02	3.5600E+03	2.5816E+00	7.1600E+02
4.0000E-01	8.7453E-01	4.8942E+01	1.3044E+02	6.6516E+02	3.5600E+03	2.5842E+00	7.1587E+02
4.1000E-01	8.8741E-01	4.9729E+01	1.3037E+02	6.6506E+02	3.5600E+03	2.5862E+00	7.1573E+02
4.2000E-01	8.9966E-01	5.0291E+01	1.3030E+02	6.6497E+02	3.5600E+03	2.5886E+00	7.1559E+02
4.3000E-01	9.1207E-01	5.0829E+01	1.3024E+02	6.6488E+02	3.5600E+03	2.5897E+00	7.1548E+02
4.4000E-01	9.2374E-01	5.1561E+01	1.3018E+02	6.6481E+02	3.5600E+03	2.5897E+00	7.1536E+02
4.5000E-01	9.3508E-01	5.2250E+01	1.3012E+02	6.6475E+02	3.5600E+03	2.5897E+00	7.1524E+02
4.6000E-01	9.4595E-01	5.2911E+01	1.3007E+02	6.6469E+02	3.5600E+03	2.5888E+00	7.1515E+02
4.7000E-01						2.5888E+00	7.1495E+02

4.7000E-01	9.5636E-01	5.3544E+01	1.3002E+02	6.6465E+02	3.5600E+03	2.5879E+00	7.1486E+02
4.8000E-01	9.6639E-01	5.4001E+01	1.2997E+02	6.6461E+02	3.5600E+03	2.5869E+00	7.1479E+02
4.9000E-01	9.7600E-01	5.4585E+01	1.2993E+02	6.6457E+02	3.5600E+03	2.5857E+00	7.1471E+02
5.0000E-01	9.8517E-01	5.5143E+01	1.2988E+02	6.6453E+02	3.5600E+03	2.5844E+00	7.1464E+02
5.1000E-01	9.9393E-01	5.5543E+01	1.2984E+02	6.6450E+02	3.5600E+03	2.5829E+00	7.1459E+02
5.2000E-01	1.0023E+00	5.5955E+01	1.2980E+02	6.6447E+02	3.5600E+03	2.5813E+00	7.1453E+02
5.3000E-01	1.0103E+00	5.6540E+01	1.2977E+02	6.6445E+02	3.5600E+03	2.5795E+00	7.1447E+02
5.4000E-01	1.0179E+00	5.7001E+01	1.2974E+02	6.6443E+02	3.5600E+03	2.5778E+00	7.1442E+02
5.5000E-01	1.0251E+00	5.7331E+01	1.2971E+02	6.6442E+02	3.5600E+03	2.5759E+00	7.1438E+02
5.6000E-01	1.0320E+00	5.7750E+01	1.2968E+02	6.6441E+02	3.5600E+03	2.5740E+00	7.1433E+02
5.7000E-01	1.0385E+00	5.8146E+01	1.2965E+02	6.6440E+02	3.5600E+03	2.5721E+00	7.1429E+02
5.8000E-01	1.0447E+00	5.8428E+01	1.2963E+02	6.6439E+02	3.5600E+03	2.5701E+00	7.1425E+02
5.9000E-01	1.0506E+00	5.8786E+01	1.2960E+02	6.6438E+02	3.5600E+03	2.5681E+00	7.1423E+02
6.0000E-01	1.0562E+00	5.9132E+01	1.2958E+02	6.6437E+02	3.5600E+03	2.5661E+00	7.1420E+02
6.1000E-01	1.0614E+00	5.9467E+01	1.2956E+02	6.6436E+02	3.5600E+03	2.5640E+00	7.1418E+02
6.2000E-01	1.0664E+00	5.9672E+01	1.2954E+02	6.6435E+02	3.5600E+03	2.5620E+00	7.1415E+02
6.3000E-01	1.0711E+00	5.9959E+01	1.2952E+02	6.6434E+02	3.5600E+03	2.5600E+00	7.1413E+02
6.4000E-01	1.0756E+00	6.0229E+01	1.2951E+02	6.6433E+02	3.5600E+03	2.5580E+00	7.1411E+02
6.5000E-01	1.0798E+00	6.0421E+01	1.2949E+02	6.6432E+02	3.5600E+03	2.5561E+00	7.1410E+02
6.6000E-01	1.0837E+00	6.0662E+01	1.2948E+02	6.6431E+02	3.5600E+03	2.5541E+00	7.1408E+02
6.7000E-01	1.0875E+00	6.0889E+01	1.2946E+02	6.6430E+02	3.5600E+03	2.5522E+00	7.1407E+02
6.8000E-01	1.0910E+00	6.1050E+01	1.2945E+02	6.6429E+02	3.5600E+03	2.5503E+00	7.1406E+02
6.9000E-01	1.0943E+00	6.1252E+01	1.2944E+02	6.6428E+02	3.5600E+03	2.5485E+00	7.1405E+02
7.0000E-01	1.0974E+00	6.1411E+01	1.2943E+02	6.6427E+02	3.5600E+03	2.5468E+00	7.1404E+02
7.1000E-01	1.1003E+00	6.1575E+01	1.2942E+02	6.6426E+02	3.5600E+03	2.5449E+00	7.1403E+02
7.2000E-01	1.1030E+00	6.1743E+01	1.2941E+02	6.6425E+02	3.5600E+03	2.5431E+00	7.1403E+02
7.3000E-01	1.1056E+00	6.1900E+01	1.2940E+02	6.6424E+02	3.5600E+03	2.5415E+00	7.1402E+02
7.4000E-01	1.1080E+00	6.2047E+01	1.2940E+02	6.6423E+02	3.5600E+03	2.5398E+00	7.1402E+02
7.5000E-01	1.1103E+00	6.2150E+01	1.2939E+02	6.6422E+02	3.5600E+03	2.5382E+00	7.1402E+02
7.6000E-01	1.1124E+00	6.2295E+01	1.2938E+02	6.6421E+02	3.5600E+03	2.5367E+00	7.1402E+02
7.7000E-01	1.1144E+00	6.2400E+01	1.2938E+02	6.6420E+02	3.5600E+03	2.5351E+00	7.1402E+02
7.8000E-01	1.1162E+00	6.2484E+01	1.2937E+02	6.6419E+02	3.5600E+03	2.5337E+00	7.1402E+02
7.9000E-01	1.1179E+00	6.2488E+01	1.2937E+02	6.6418E+02	3.5600E+03	2.5323E+00	7.1402E+02
8.0000E-01	1.1195E+00	6.2500E+01	1.2936E+02	6.6417E+02	3.5600E+03	2.5309E+00	7.1402E+02
8.1000E-01	1.1210E+00	6.2778E+01	1.2936E+02	6.6416E+02	3.5600E+03	2.5295E+00	7.1402E+02
8.2000E-01	1.1224E+00	6.2842E+01	1.2936E+02	6.6415E+02	3.5600E+03	2.5281E+00	7.1403E+02
8.3000E-01	1.1237E+00	6.2921E+01	1.2936E+02	6.6414E+02	3.5600E+03	2.5271E+00	7.1403E+02
8.4000E-01	1.1249E+00	6.2994E+01	1.2935E+02	6.6413E+02	3.5600E+03	2.5259E+00	7.1403E+02
8.5000E-01	1.1260E+00	6.3045E+01	1.2935E+02	6.6412E+02	3.5600E+03	2.5247E+00	7.1404E+02
8.6000E-01	1.1271E+00	6.3108E+01	1.2935E+02	6.6411E+02	3.5600E+03	2.5236E+00	7.1404E+02
8.7000E-01	1.1280E+00	6.3168E+01	1.2935E+02	6.6410E+02	3.5600E+03	2.5226E+00	7.1404E+02
8.8000E-01	1.1289E+00	6.3208E+01	1.2935E+02	6.6409E+02	3.5600E+03	2.5216E+00	7.1405E+02
8.9000E-01	1.1297E+00	6.3256E+01	1.2935E+02	6.6408E+02	3.5600E+03	2.5206E+00	7.1405E+02
9.0000E-01	1.1304E+00	6.3301E+01	1.2934E+02	6.6407E+02	3.5600E+03	2.5197E+00	7.1406E+02
9.1000E-01	1.1311E+00	6.3343E+01	1.2934E+02	6.6406E+02	3.5600E+03	2.5188E+00	7.1406E+02
9.2000E-01	1.1318E+00	6.3372E+01	1.2934E+02	6.6405E+02	3.5600E+03	2.5179E+00	7.1406E+02
9.3000E-01	1.1323E+00	6.3407E+01	1.2934E+02	6.6404E+02	3.5600E+03	2.5171E+00	7.1407E+02
9.4000E-01	1.1328E+00	6.3439E+01	1.2934E+02	6.6403E+02	3.5600E+03	2.5163E+00	7.1407E+02
9.5000E-01	1.1333E+00	6.3466E+01	1.2934E+02	6.6402E+02	3.5600E+03	2.5156E+00	7.1408E+02
9.6000E-01	1.1338E+00	6.3487E+01	1.2934E+02	6.6401E+02	3.5600E+03	2.5148E+00	7.1408E+02
9.7000E-01	1.1341E+00	6.3511E+01	1.2934E+02	6.6400E+02	3.5600E+03	2.5141E+00	7.1409E+02
9.8000E-01	1.1345E+00	6.3527E+01	1.2934E+02	6.6399E+02	3.5600E+03	2.5135E+00	7.1409E+02
9.9000E-01	1.1348E+00	6.3547E+01	1.2934E+02	6.6398E+02	3.5600E+03	2.5129E+00	7.1410E+02
1.0000E+00	1.1351E+00	6.3564E+01	1.2934E+02	6.6397E+02	3.5600E+03	2.5123E+00	7.1410E+02



4.5000E-01	1.0000E+01	-9.5732E-07	-8.5281E-03	-1.9490E-01	1.1612E-02	-1.3684E-01	6.7210E-07
4.6000E-01	1.0000E+01	-8.8926E-07	-7.9348E-03	-1.8027E-01	8.7372E-03	-1.3156E-01	6.6104E-07
4.7000E-01	1.0000E+01	-8.2484E-07	-7.3723E-03	-1.6645E-01	8.0042E-03	-1.2643E-01	6.4930E-07
4.8000E-01	1.0000E+01	-7.6392E-07	-6.8399E-03	-1.5347E-01	7.4055E-03	-1.2140E-01	6.3609E-07
4.9000E-01	1.0000E+01	-7.0635E-07	-6.3364E-03	-1.4114E-01	6.8333E-03	-1.1647E-01	6.2214E-07
5.0000E-01	1.0000E+01	-6.5200E-07	-5.8605E-03	-1.2958E-01	6.3503E-03	-1.1167E-01	6.0793E-07
5.1000E-01	1.0000E+01	-6.0074E-07	-5.4112E-03	-1.1869E-01	5.9239E-03	-1.0700E-01	5.9317E-07
5.2000E-01	1.0000E+01	-5.5243E-07	-4.9873E-03	-1.0847E-01	5.5242E-03	-1.0245E-01	5.7766E-07
5.3000E-01	1.0000E+01	-5.0694E-07	-4.5813E-03	-9.8836E-02	5.1605E-04	-9.8023E-02	5.6216E-07
5.4000E-01	1.0000E+01	-4.6415E-07	-4.2116E-03	-8.9855E-02	4.8309E-03	-9.3728E-02	5.4669E-07
5.5000E-01	1.0000E+01	-4.2394E-07	-3.8576E-03	-8.1407E-02	4.5309E-03	-8.9561E-02	5.3057E-07
5.6000E-01	1.0000E+01	-3.8618E-07	-3.5248E-03	-7.3499E-02	4.2405E-03	-8.5524E-02	5.1459E-07
5.7000E-01	1.0000E+01	-3.5075E-07	-3.2123E-03	-6.6102E-02	3.9726E-03	-8.1615E-02	4.9881E-07
5.8000E-01	1.0000E+01	-3.1756E-07	-2.9192E-03	-5.9191E-02	3.7286E-03	-7.7834E-02	4.8289E-07
5.9000E-01	1.0000E+01	-2.8646E-07	-2.6444E-03	-5.2740E-02	3.5079E-03	-7.4180E-02	4.6700E-07
6.0000E-01	1.0000E+01	-2.5742E-07	-2.3871E-03	-4.6727E-02	3.3082E-03	-7.0651E-02	4.5140E-07
6.1000E-01	1.0000E+01	-2.3022E-07	-2.1464E-03	-4.1128E-02	3.1288E-03	-6.7247E-02	4.3601E-07
6.2000E-01	1.0000E+01	-2.0493E-07	-1.9215E-03	-3.5921E-02	2.9688E-03	-6.3965E-02	4.2059E-07
6.3000E-01	1.0000E+01	-1.8132E-07	-1.7116E-03	-3.1086E-02	2.8235E-03	-6.0803E-02	4.0553E-07
6.4000E-01	1.0000E+01	-1.5934E-07	-1.5160E-03	-2.6601E-02	2.6916E-03	-5.7760E-02	3.9081E-07
6.5000E-01	1.0000E+01	-1.3891E-07	-1.3338E-03	-2.2449E-02	2.5766E-03	-5.4837E-02	3.7618E-07
6.6000E-01	1.0000E+01	-1.1994E-07	-1.1644E-03	-1.8610E-02	2.4766E-03	-5.2016E-02	3.6185E-07
6.7000E-01	1.0000E+01	-1.0235E-07	-1.0071E-03	-1.5067E-02	2.3891E-03	-4.9316E-02	3.4797E-07
6.8000E-01	1.0000E+01	-8.6068E-08	-8.6127E-04	-1.1802E-02	2.3044E-03	-4.6722E-02	3.3431E-07
6.9000E-01	1.0000E+01	-7.1021E-08	-7.2821E-04	-8.7999E-03	2.2244E-03	-4.4234E-02	3.2093E-07
7.0000E-01	1.0000E+01	-5.7137E-08	-6.0135E-04	-6.0448E-03	2.1494E-03	-4.1849E-02	3.0784E-07
7.1000E-01	1.0000E+01	-4.4350E-08	-4.8611E-04	-3.5221E-03	2.0784E-03	-3.9564E-02	2.9530E-07
7.2000E-01	1.0000E+01	-3.2597E-08	-3.8233E-04	-2.1278E-03	2.0111E-03	-3.7377E-02	2.8292E-07
7.3000E-01	1.0000E+01	-2.1949E-08	-2.8235E-04	-1.2178E-03	1.9490E-03	-3.5285E-02	2.7092E-07
7.4000E-01	1.0000E+01	-1.1949E-08	-1.9275E-04	-7.2889E-03	1.8916E-03	-3.3286E-02	2.5929E-07
7.5000E-01	1.0000E+01	-2.9409E-09	-1.1074E-04	-4.5161E-03	1.8393E-03	-3.1375E-02	2.4797E-07
7.6000E-01	1.0000E+01	-5.2610E-09	-3.5937E-05	6.0748E-03	1.7833E-03	-2.9551E-02	2.3700E-07
7.7000E-01	1.0000E+01	1.2707E-08	8.2396E-05	7.4756E-03	1.7325E-03	-2.7811E-02	2.2639E-07
7.8000E-01	1.0000E+01	1.9445E-08	8.4504E-05	8.6729E-03	1.6861E-03	-2.6151E-02	2.1617E-07
7.9000E-01	1.0000E+01	2.6521E-08	8.4566E-05	9.6456E-03	1.6432E-03	-2.4570E-02	2.0617E-07
8.0000E-01	1.0000E+01	3.0977E-08	8.2011E-04	1.0834E-02	1.6032E-03	-2.3064E-02	1.9657E-07
8.1000E-01	1.0000E+01	3.8954E-08	2.4661E-04	1.1703E-02	1.5669E-03	-2.1631E-02	1.8730E-07
8.2000E-01	1.0000E+01	4.0192E-08	2.8732E-04	1.2461E-02	1.5324E-03	-2.0268E-02	1.7835E-07
8.3000E-01	1.0000E+01	4.4739E-08	3.2355E-04	1.3117E-02	1.5000E-03	-1.8973E-02	1.6972E-07
8.4000E-01	1.0000E+01	5.0326E-08	3.5662E-04	1.3677E-02	1.4680E-03	-1.7743E-02	1.6141E-07
8.5000E-01	1.0000E+01	5.2855E-08	3.8391E-04	1.4148E-02	1.4368E-03	-1.6575E-02	1.5341E-07
8.6000E-01	1.0000E+01	5.5009E-08	4.0840E-04	1.4539E-02	1.4062E-03	-1.5467E-02	1.4572E-07
8.7000E-01	1.0000E+01	5.6818E-08	4.2964E-04	1.4854E-02	1.3764E-03	-1.4417E-02	1.3831E-07
8.8000E-01	1.0000E+01	5.8306E-08	4.4777E-04	1.5099E-02	1.3474E-03	-1.3423E-02	1.3120E-07
8.9000E-01	1.0000E+01	5.9500E-08	4.6303E-04	1.5281E-02	1.3195E-03	-1.2481E-02	1.2438E-07
9.0000E-01	1.0000E+01	6.0421E-08	4.7564E-04	1.5404E-02	1.2925E-03	-1.1590E-02	1.1783E-07
9.1000E-01	1.0000E+01	6.1093E-08	4.8580E-04	1.5474E-02	1.2665E-03	-1.0749E-02	1.1154E-07
9.2000E-01	1.0000E+01	6.1537E-08	4.9371E-04	1.5495E-02	1.2415E-03	-9.9533E-03	1.0553E-07
9.3000E-01	1.0000E+01	6.1770E-08	5.0347E-04	1.5407E-02	1.2174E-03	-9.2026E-03	9.9773E-08
9.4000E-01	1.0000E+01	6.1613E-08	5.0566E-04	1.5307E-02	1.1946E-03	-8.4946E-03	9.4250E-08
9.5000E-01	1.0000E+01	6.1682E-08	5.0525E-04	1.5207E-02	1.1733E-03	-7.8272E-03	8.9973E-08
9.6000E-01	1.0000E+01	6.1392E-08	5.0541E-04	1.5010E-02	1.1530E-03	-7.1968E-03	8.3943E-08
9.7000E-01	1.0000E+01	6.0981E-08	5.0324E-04	1.4820E-02	1.1334E-03	-6.6075E-03	7.9124E-08
9.8000E-01	1.0000E+01	6.0400E-08	4.9899E-04	1.4606E-02	1.1144E-03	-6.0515E-03	7.4511E-08
9.9000E-01	1.0000E+01	5.9724E-08	4.9547E-04	1.4372E-02	1.0964E-03	-5.5293E-03	7.0143E-08
1.0000E+00	1.0000E+01						6.5964E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	B VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
0.0000E+00	1.6669E-09	6.4376E-07	2.6379E-02	4.5213E+00	7.3608E+02	5.0000E+00	3.1000E+02
1.0000E-02	1.5881E-09	5.8308E-07	2.6085E-02	4.3747E+00	7.1648E+02	7.0759E+01	8.5487E+03
2.0000E-02	1.4245E-09	5.7331E-07	2.5082E-02	4.2832E+00	6.9802E+02	4.5999E+01	8.2095E+03
3.0000E-02	1.2464E-09	5.8746E-07	2.5114E-02	4.2588E+00	6.9337E+02	2.2394E+01	7.1423E+03
4.0000E-02	1.0811E-09	5.9854E-07	2.4938E-02	4.2562E+00	6.9291E+02	1.2821E+01	5.9077E+03
5.0000E-02	9.3529E-10	6.0341E-07	2.4872E-02	4.2566E+00	6.9299E+02	8.1143E+00	4.7735E+03
6.0000E-02	8.0438E-10	6.0438E-07	2.4846E-02	4.2566E+00	6.9274E+02	4.8689E+00	3.6009E+03
7.0000E-02	6.1612E-10	6.0347E-07	2.4824E-02	4.2507E+00	6.9222E+02	2.3139E+00	2.9814E+03
8.0000E-02	5.4291E-10	6.0205E-07	2.4796E-02	4.2445E+00	6.9117E+02	-1.5947E-01	2.2930E+03
9.0000E-02	4.7940E-10	6.0057E-07	2.4760E-02	4.2372E+00	6.8991E+02	-1.5978E+00	1.7132E+03
1.0000E-01	4.2583E-10	5.9930E-07	2.4720E-02	4.2298E+00	6.8865E+02	-3.2741E+00	1.2244E+03
1.2000E-01	3.8072E-10	5.9849E-07	2.4679E-02	4.2232E+00	6.8772E+02	-4.7148E+00	8.1170E+02
1.4000E-01	3.4284E-10	5.9801E-07	2.4641E-02	4.2175E+00	6.8698E+02	-5.6409E+00	4.6253E+02
1.6000E-01	3.1117E-10	5.9780E-07	2.4609E-02	4.2130E+00	6.8669E+02	-6.6706E+00	1.6781E+02
1.8000E-01	2.8483E-10	5.9878E-07	2.4584E-02	4.2099E+00	6.8546E+02	-7.4851E+00	-8.0320E+01
2.0000E-01	2.6307E-10	5.9815E-07	2.4566E-02	4.2081E+00	6.8546E+02	-8.2099E+00	-2.8872E+02
2.2000E-01	2.4525E-10	5.9855E-07	2.4555E-02	4.2075E+00	6.8511E+02	-8.5549E+00	-4.6288E+02
2.4000E-01	2.3081E-10	5.9908E-07	2.4553E-02	4.2079E+00	6.8498E+02	-8.9396E+00	-6.0738E+02
2.6000E-01	2.1920E-10	5.9965E-07	2.4553E-02	4.2092E+00	6.8501E+02	-9.2323E+00	-7.2641E+02
2.8000E-01	2.1025E-10	6.0028E-07	2.4572E-02	4.2113E+00	6.8556E+02	-9.5221E+00	-8.2334E+02
3.0000E-01	1.9830E-10	6.0095E-07	2.4572E-02	4.2140E+00	6.8643E+02	-9.5409E+00	-9.6304E+02
3.2000E-01	1.8480E-10	6.0324E-07	2.4605E-02	4.2170E+00	6.8643E+02	-9.5614E+00	-1.0106E+03
3.4000E-01	1.7239E-10	6.0590E-07	2.4624E-02	4.2205E+00	6.8703E+02	-9.4370E+00	-1.0713E+03
3.6000E-01	1.6151E-10	6.0413E-07	2.4646E-02	4.2242E+00	6.8818E+02	-9.4485E+00	-1.0878E+03
3.8000E-01	1.5366E-10	6.0532E-07	2.4688E-02	4.2280E+00	6.8886E+02	-9.2653E+00	-1.0990E+03
4.0000E-01	1.4800E-10	6.0472E-07	2.4690E-02	4.2319E+00	6.8956E+02	-9.597E+00	-1.0963E+03
4.2000E-01	1.4359E-10	6.0532E-07	2.4736E-02	4.2398E+00	6.9075E+02	-8.9261E+00	-1.0886E+03
4.4000E-01	1.3984E-10	6.0683E-07	2.4781E-02	4.2435E+00	6.9142E+02	-8.2686E+00	-1.0866E+03
4.6000E-01	1.3695E-10	6.0728E-07	2.4802E-02	4.2511E+00	6.9207E+02	-8.5197E+00	-1.0627E+03
4.8000E-01	1.3412E-10	6.0770E-07	2.4823E-02	4.2547E+00	6.9244E+02	-8.2645E+00	-1.0527E+03
5.0000E-01	1.3121E-10	6.0812E-07	2.4842E-02	4.2613E+00	6.9314E+02	-8.1590E+00	-1.0454E+03
5.2000E-01	1.2829E-10	6.0852E-07	2.4862E-02	4.2645E+00	6.9372E+02	-7.8917E+00	-1.0458E+03
5.4000E-01	1.2536E-10	6.0886E-07	2.4880E-02	4.2674E+00	6.9414E+02	-7.6240E+00	-1.0455E+03
5.6000E-01	1.2242E-10	6.0920E-07	2.4897E-02	4.2703E+00	6.9407E+02	-7.4939E+00	-9.8182E+02
5.8000E-01	1.1948E-10	6.0954E-07	2.4914E-02	4.2730E+00	6.9517E+02	-6.9575E+00	-9.3293E+02
6.0000E-01	1.1654E-10	6.0983E-07	2.4929E-02	4.2758E+00	6.9564E+02	-6.6961E+00	-9.0750E+02
6.2000E-01	1.1360E-10	6.1010E-07	2.4944E-02	4.2789E+00	6.9640E+02	-6.5481E+00	-8.8143E+02
6.4000E-01	1.1066E-10	6.1037E-07	2.4958E-02	4.2816E+00	6.9679E+02	-6.2907E+00	-8.5507E+02
6.6000E-01	1.0772E-10	6.1062E-07	2.4971E-02	4.2822E+00	6.9708E+02	-6.0399E+00	-8.2862E+02
6.8000E-01	1.0478E-10	6.1084E-07	2.4984E-02	4.2842E+00	6.9743E+02	-5.8425E+00	-8.0209E+02
7.0000E-01	1.0184E-10	6.1105E-07	2.4995E-02	4.2861E+00	6.9776E+02	-5.4082E+00	-7.7555E+02
7.2000E-01	9.8897E-11	6.1127E-07	2.5006E-02	4.2879E+00	6.9799E+02	-5.4082E+00	-7.4924E+02
7.4000E-01	9.5910E-11	6.1143E-07	2.5016E-02	4.2894E+00	6.9828E+02	-5.0248E+00	-7.2320E+02
7.6000E-01	9.2923E-11	6.1160E-07	2.5026E-02	4.2910E+00	6.9855E+02	-4.8054E+00	-6.9739E+02

4.7000E-01	2.6354E-10	6.1177E-07	2.5035E-02	4.2924E+00	6.9880E+02	-4.5936E+00	-6.4690E+02
4.8000E-01	2.9733E-10	6.1181E-07	2.5049E-02	4.2937E+00	6.9898E+02	-4.4452E+00	-6.2229E+02
5.0000E-01	2.7104E-10	6.1204E-07	2.5051E-02	4.2949E+00	6.9919E+02	-4.2437E+00	-5.9817E+02
5.1000E-01	2.7867E-10	6.1217E-07	2.5058E-02	4.2961E+00	6.9940E+02	-4.0487E+00	-5.7460E+02
5.2000E-01	2.8621E-10	6.1229E-07	2.5064E-02	4.2971E+00	6.9954E+02	-3.9079E+00	-5.5156E+02
5.3000E-01	2.8167E-10	6.1239E-07	2.5071E-02	4.2981E+00	6.9971E+02	-3.7245E+00	-5.2904E+02
5.4000E-01	2.8503E-10	6.1249E-07	2.5076E-02	4.2990E+00	6.9987E+02	-3.5484E+00	-5.0717E+02
5.5000E-01	2.8830E-10	6.1259E-07	2.5082E-02	4.2999E+00	6.9999E+02	-3.3794E+00	-4.8581E+02
5.6000E-01	2.9148E-10	6.1266E-07	2.5086E-02	4.3006E+00	7.0002E+02	-3.2494E+00	-4.6503E+02
5.7000E-01	2.9456E-10	6.1273E-07	2.5091E-02	4.3013E+00	7.0005E+02	-3.0907E+00	-4.4487E+02
5.8000E-01	2.9755E-10	6.1281E-07	2.5095E-02	4.3020E+00	7.0007E+02	-2.9182E+00	-4.2533E+02
5.9000E-01	3.0045E-10	6.1287E-07	2.5099E-02	4.3028E+00	7.0008E+02	-2.7663E+00	-4.0637E+02
6.0000E-01	3.0325E-10	6.1292E-07	2.5102E-02	4.3031E+00	7.0008E+02	-2.6300E+00	-3.8800E+02
6.1000E-01	3.0598E-10	6.1297E-07	2.5106E-02	4.3036E+00	7.0008E+02	-2.5050E+00	-3.7024E+02
6.2000E-01	3.0858E-10	6.1302E-07	2.5109E-02	4.3041E+00	7.0008E+02	-2.4000E+00	-3.5308E+02
6.3000E-01	3.1110E-10	6.1306E-07	2.5111E-02	4.3045E+00	7.0008E+02	-2.3038E+00	-3.3648E+02
6.4000E-01	3.1354E-10	6.1310E-07	2.5114E-02	4.3049E+00	7.0008E+02	-2.2184E+00	-3.2047E+02
6.5000E-01	3.1589E-10	6.1313E-07	2.5116E-02	4.3052E+00	7.0008E+02	-2.1444E+00	-3.0504E+02
6.6000E-01	3.1815E-10	6.1316E-07	2.5118E-02	4.3055E+00	7.0009E+02	-2.0814E+00	-2.9015E+02
6.7000E-01	3.2032E-10	6.1318E-07	2.5120E-02	4.3058E+00	7.0009E+02	-1.9714E+00	-2.7582E+02
6.8000E-01	3.2244E-10	6.1321E-07	2.5122E-02	4.3060E+00	7.0102E+02	-1.8651E+00	-2.6270E+02
6.9000E-01	3.2445E-10	6.1323E-07	2.5124E-02	4.3063E+00	7.0105E+02	-1.7639E+00	-2.4877E+02
7.0000E-01	3.2627E-10	6.1324E-07	2.5125E-02	4.3065E+00	7.0109E+02	-1.6765E+00	-2.3603E+02
7.1000E-01	3.2771E-10	6.1327E-07	2.5126E-02	4.3068E+00	7.0112E+02	-1.5934E+00	-2.2379E+02
7.2000E-01	3.2884E-10	6.1328E-07	2.5127E-02	4.3069E+00	7.0114E+02	-1.4974E+00	-2.1205E+02
7.3000E-01	3.2968E-10	6.1329E-07	2.5128E-02	4.3070E+00	7.0114E+02	-1.4167E+00	-2.0079E+02
7.4000E-01	3.3034E-10	6.1330E-07	2.5128E-02	4.3071E+00	7.0120E+02	-1.2583E+00	-1.8999E+02
7.5000E-01	3.3091E-10	6.1330E-07	2.5129E-02	4.3072E+00	7.0121E+02	-1.1850E+00	-1.7966E+02
7.6000E-01	3.3138E-10	6.1330E-07	2.5129E-02	4.3073E+00	7.0121E+02	-1.1186E+00	-1.6975E+02
7.7000E-01	3.3175E-10	6.1331E-07	2.5130E-02	4.3074E+00	7.0123E+02	-1.0519E+00	-1.6029E+02
7.8000E-01	3.3200E-10	6.1331E-07	2.5130E-02	4.3074E+00	7.0124E+02	-9.8854E-01	-1.5125E+02
7.9000E-01	3.3214E-10	6.1331E-07	2.5130E-02	4.3074E+00	7.0124E+02	-9.3009E-01	-1.4260E+02
8.0000E-01	3.3219E-10	6.1331E-07	2.5131E-02	4.3074E+00	7.0124E+02	-8.7962E-01	-1.3435E+02
8.1000E-01	3.3214E-10	6.1330E-07	2.5131E-02	4.3074E+00	7.0124E+02	-8.3725E-01	-1.2647E+02
8.2000E-01	3.3195E-10	6.1330E-07	2.5131E-02	4.3074E+00	7.0124E+02	-7.9674E-01	-1.1896E+02
8.3000E-01	3.3168E-10	6.1329E-07	2.5131E-02	4.3074E+00	7.0124E+02	-7.5792E-01	-1.1181E+02
8.4000E-01	3.3135E-10	6.1329E-07	2.5131E-02	4.3074E+00	7.0124E+02	-7.2142E-01	-1.0499E+02
8.5000E-01	3.3098E-10	6.1328E-07	2.5131E-02	4.3074E+00	7.0124E+02	-6.8758E-01	-9.8504E+01
8.6000E-01	3.3056E-10	6.1328E-07	2.5131E-02	4.3074E+00	7.0124E+02	-6.5577E-01	-9.2333E+01
8.7000E-01	3.3009E-10	6.1327E-07	2.5130E-02	4.3073E+00	7.0123E+02	-6.2659E-01	-8.6468E+01
8.8000E-01	3.2957E-10	6.1326E-07	2.5130E-02	4.3073E+00	7.0123E+02	-5.9956E-01	-8.0896E+01
8.9000E-01	3.2900E-10	6.1325E-07	2.5130E-02	4.3073E+00	7.0123E+02	-5.7420E-01	-7.5605E+01
9.0000E-01	3.2838E-10	6.1324E-07	2.5130E-02	4.3072E+00	7.0122E+02	-5.5037E-01	-7.0587E+01
9.1000E-01	3.2771E-10	6.1323E-07	2.5130E-02	4.3072E+00	7.0122E+02	-5.2780E-01	-6.5829E+01
9.2000E-01	3.2699E-10	6.1322E-07	2.5129E-02	4.3071E+00	7.0120E+02	-5.0642E-01	-6.1319E+01
9.3000E-01	3.2622E-10	6.1321E-07	2.5129E-02	4.3071E+00	7.0119E+02	-4.8627E-01	-5.7051E+01
9.4000E-01	3.2540E-10	6.1321E-07	2.5129E-02	4.3070E+00	7.0119E+02	-4.6725E-01	-5.3013E+01
9.5000E-01	3.2453E-10	6.1321E-07	2.5129E-02	4.3070E+00	7.0118E+02	-4.4942E-01	-4.9192E+01
9.6000E-01	3.2361E-10	6.1321E-07	2.5128E-02	4.3069E+00	7.0118E+02	-4.3272E-01	-4.5583E+01
9.7000E-01	3.2264E-10	6.1321E-07	2.5128E-02	4.3069E+00	7.0117E+02	-4.1724E-01	-4.2177E+01
9.8000E-01	3.2162E-10	6.1320E-07	2.5128E-02	4.3068E+00	7.0116E+02	-4.0291E-01	-3.8962E+01
9.9000E-01	3.2055E-10	6.1319E-07	2.5128E-02	4.3068E+00	7.0115E+02	-3.8968E-01	-3.5929E+01
1.0000E+00	3.1943E-10	6.1318E-07	2.5127E-02	4.3068E+00	7.0114E+02	-3.7809E-01	-3.3076E+01
	3.1818E-10	6.1318E-07	2.5127E-02	4.3067E+00	7.0113E+02	-3.6826E-01	-3.0389E+01

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6840E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.6280E+02	2.1589E-10	3.3566E+03	2.7800E+01	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
3.0000E-02	4.3859E+01	8.1191E+01	2.0009E-05	1.0000E+01	1.6896E-06	3.8180E-08	1.0310E-06
4.0000E-02	3.5488E+01	8.1875E+01	2.0034E-05	1.0000E+01	1.6649E-06	3.8350E-08	8.9408E-07
5.0000E-02	2.8248E+01	8.2071E+01	2.0085E-05	1.0000E+01	1.4438E-06	3.8505E-08	6.7866E-07
6.0000E-02	2.2193E+01	8.2389E+01	2.0100E-05	1.0000E+01	1.2292E-06	3.8639E-08	5.0387E-07
7.0000E-02	1.7065E+01	8.2840E+01	2.0138E-05	1.0000E+01	1.0689E-06	3.8753E-08	3.9541E-07
8.0000E-02	1.2743E+01	8.2836E+01	2.0216E-05	1.0000E+01	8.7440E-07	3.8844E-08	3.4873E-07
9.0000E-02	9.1007E+00	8.3093E+01	2.0245E-05	1.0000E+01	8.3394E-07	3.9029E-08	3.9887E-07
1.0000E-01	6.0291E+00	8.3168E+01	2.0293E-05	1.0000E+01	8.1188E-07	3.9111E-08	4.6480E-07
1.2000E-01	3.4338E+00	8.3215E+01	2.0382E-05	1.0000E+01	7.8322E-07	3.9190E-08	5.3254E-07
1.4000E-01	2.4555E+00	8.3238E+01	2.0395E-05	1.0000E+01	7.7329E-07	3.9268E-08	6.1053E-07
1.6000E-01	1.9613E-01	8.3247E+01	2.0424E-05	1.0000E+01	7.6118E-07	3.9345E-08	6.8416E-07
1.8000E-01	1.435E+00	8.3199E+01	2.0451E-05	1.0000E+01	7.3887E-07	3.9420E-08	7.4672E-07
2.0000E-01	1.0065E+00	8.3109E+01	2.0478E-05	1.0000E+01	7.1975E-07	3.9493E-08	8.0444E-07
2.2000E-01	7.1357E+00	8.3051E+01	2.0498E-05	1.0000E+01	6.9528E-07	3.9564E-08	8.5206E-07
2.4000E-01	5.2863E+00	8.2987E+01	2.0517E-05	1.0000E+01	6.6766E-07	3.9632E-08	8.9084E-07
2.6000E-01	4.0779E+00	8.2917E+01	2.0534E-05	1.0000E+01	6.3621E-07	3.9697E-08	9.2054E-07
2.8000E-01	3.2665E+00	8.2843E+01	2.0549E-05	1.0000E+01	6.0129E-07	3.9759E-08	9.4205E-07
3.0000E-01	2.7843E+00	8.2766E+01	2.0571E-05	1.0000E+01	5.6393E-07	3.9817E-08	9.5645E-07
3.2000E-01	2.5075E+00	8.2687E+01	2.0579E-05	1.0000E+01	5.3280E-07	3.9872E-08	9.6881E-07
3.4000E-01	2.3152E+00	8.2606E+01	2.0591E-05	1.0000E+01	4.9382E-07	3.9924E-08	9.7255E-07
3.6000E-01	2.1852E+00	8.2523E+01	2.0585E-05	1.0000E+01	4.5478E-07	4.0015E-08	9.7211E-07
3.8000E-01	2.0902E+00	8.2440E+01	2.0591E-05	1.0000E+01	4.2499E-07	4.0055E-08	9.7306E-07
4.0000E-01	2.0102E+00	8.2357E+01	2.0592E-05	1.0000E+01	3.8733E-07	4.0095E-08	9.7504E-07
4.2000E-01	1.9411E+00	8.2275E+01	2.0591E-05	1.0000E+01	3.5088E-07	4.0095E-08	9.7504E-07
4.4000E-01	1.8811E+00	8.2193E+01	2.0588E-05	1.0000E+01	3.1536E-07	4.0128E-08	9.7478E-07
4.6000E-01	1.8295E+00	8.2111E+01	2.0585E-05	1.0000E+01	2.8042E-07	4.0158E-08	9.7411E-07
4.8000E-01	1.7855E+00	8.2031E+01	2.0585E-05	1.0000E+01	2.5815E-07	4.0184E-08	9.72868E-07
5.0000E-01	1.7482E+00	8.1952E+01	2.0590E-05	1.0000E+01	2.2788E-07	4.0208E-08	9.1562E-07
5.2000E-01	1.7165E+00	8.1872E+01	2.0574E-05	1.0000E+01	2.0884E-07	4.0230E-08	9.0654E-07
5.4000E-01	1.6895E+00	8.1795E+01	2.0567E-05	1.0000E+01	1.7957E-07	4.0249E-08	8.9275E-07
5.6000E-01	1.6669E+00	8.1725E+01	2.0560E-05	1.0000E+01	1.5407E-07	4.0266E-08	8.7891E-07
5.8000E-01	1.6477E+00	8.1652E+01	2.0551E-05	1.0000E+01	1.3735E-07	4.0280E-08	8.6898E-07
6.0000E-01	1.6309E+00	8.1582E+01	2.0542E-05	1.0000E+01	1.1501E-07	4.0293E-08	8.5523E-07
6.2000E-01	1.6168E+00	8.1513E+01	2.0532E-05	1.0000E+01	9.4328E-08	4.0303E-08	8.4174E-07
6.4000E-01	1.6050E+00	8.1446E+01	2.0522E-05	1.0000E+01	7.5240E-08	4.0312E-08	8.2856E-07
6.6000E-01	1.5950E+00	8.1382E+01	2.0511E-05	1.0000E+01	6.3388E-08	4.0319E-08	8.1885E-07
6.8000E-01	1.5864E+00	8.1327E+01	2.0500E-05	1.0000E+01	4.7010E-08	4.0324E-08	8.0828E-07
7.0000E-01	1.5790E+00	8.1282E+01	2.0488E-05	1.0000E+01	3.2032E-08	4.0328E-08	7.9413E-07
7.2000E-01	1.5728E+00	8.1248E+01	2.0486E-05	1.0000E+01	2.3121E-08	4.0331E-08	7.8501E-07
7.4000E-01	1.5678E+00	8.1225E+01	2.0476E-05	1.0000E+01	1.0459E-08	4.0333E-08	7.7562E-07
7.6000E-01	1.5635E+00	8.1199E+01	2.0464E-05	1.0000E+01	-1.0128E-09	4.0333E-08	7.6489E-07
7.8000E-01	1.5595E+00	8.1143E+01	2.0452E-05	1.0000E+01	-1.4775E-09	4.0333E-08	7.5435E-07
8.0000E-01	1.5564E+00	8.1088E+01	2.0440E-05	1.0000E+01	-1.7016E-08	4.0331E-08	7.4422E-07
8.2000E-01	1.5535E+00	8.1035E+01	2.0427E-05	1.0000E+01	-2.5563E-08	4.0329E-08	7.3454E-07

4.7000E-01	-5.0062E+00	8.0984E+01	2.0415E-05	1.0000E+01	-3.3185E-08	4.0326E-06	7.5532E-07
4.8000E-01	-4.8188E+00	8.0935E+01	2.0402E-05	1.0000E+01	-3.6997E-08	4.0323E-06	7.1616E-07
4.9000E-01	-4.6349E+00	8.0887E+01	2.0390E-05	1.0000E+01	-4.3149E-08	4.0319E-06	7.0970E-07
5.0000E-01	-4.4548E+00	8.0842E+01	2.0377E-05	1.0000E+01	-4.8549E-08	4.0314E-06	7.0166E-07
5.1000E-01	-4.2785E+00	8.0798E+01	2.0365E-05	1.0000E+01	-5.0968E-08	4.0309E-06	6.9533E-07
5.2000E-01	-4.1059E+00	8.0756E+01	2.0353E-05	1.0000E+01	-5.5120E-08	4.0304E-06	6.8900E-07
5.3000E-01	-3.9376E+00	8.0716E+01	2.0341E-05	1.0000E+01	-5.8732E-08	4.0298E-06	6.8106E-07
5.4000E-01	-3.7738E+00	8.0678E+01	2.0329E-05	1.0000E+01	-6.1796E-08	4.0292E-06	6.7449E-07
5.5000E-01	-3.6139E+00	8.0641E+01	2.0317E-05	1.0000E+01	-6.4635E-08	4.0286E-06	6.6922E-07
5.6000E-01	-3.4566E+00	8.0605E+01	2.0306E-05	1.0000E+01	-6.7432E-08	4.0279E-06	6.6327E-07
5.7000E-01	-3.3019E+00	8.0571E+01	2.0294E-05	1.0000E+01	-6.8442E-08	4.0273E-06	6.5765E-07
5.8000E-01	-3.1515E+00	8.0539E+01	2.0283E-05	1.0000E+01	-6.9662E-08	4.0266E-06	6.5308E-07
5.9000E-01	-3.0196E+00	8.0508E+01	2.0272E-05	1.0000E+01	-6.7788E-08	4.0259E-06	6.4802E-07
6.0000E-01	-2.8923E+00	8.0479E+01	2.0262E-05	1.0000E+01	-6.8556E-08	4.0253E-06	6.4324E-07
6.1000E-01	-2.7494E+00	8.0451E+01	2.0251E-05	1.0000E+01	-6.8020E-08	4.0246E-06	6.3930E-07
6.2000E-01	-2.6206E+00	8.0424E+01	2.0241E-05	1.0000E+01	-6.8325E-08	4.0239E-06	6.3502E-07
6.3000E-01	-2.4967E+00	8.0396E+01	2.0232E-05	1.0000E+01	-6.8188E-08	4.0232E-06	6.3099E-07
6.4000E-01	-2.3711E+00	8.0351E+01	2.0222E-05	1.0000E+01	-6.7028E-08	4.0219E-06	6.2720E-07
6.5000E-01	-2.2502E+00	8.0308E+01	2.0212E-05	1.0000E+01	-6.6496E-08	4.0212E-06	6.2402E-07
6.6000E-01	-2.1502E+00	8.0308E+01	2.0194E-05	1.0000E+01	-6.5794E-08	4.0205E-06	6.2084E-07
6.7000E-01	-2.0431E+00	8.0288E+01	2.0186E-05	1.0000E+01	-6.4481E-08	4.0205E-06	6.1747E-07
6.8000E-01	-1.9401E+00	8.0269E+01	2.0178E-05	1.0000E+01	-6.3531E-08	4.0192E-06	6.1472E-07
6.9000E-01	-1.8409E+00	8.0251E+01	2.0170E-05	1.0000E+01	-6.2480E-08	4.0182E-06	6.1196E-07
7.0000E-01	-1.7457E+00	8.0234E+01	2.0162E-05	1.0000E+01	-6.0899E-08	4.0180E-06	6.0932E-07
7.1000E-01	-1.6544E+00	8.0218E+01	2.0154E-05	1.0000E+01	-5.9797E-08	4.0174E-06	6.0704E-07
7.2000E-01	-1.5667E+00	8.0202E+01	2.0147E-05	1.0000E+01	-5.8515E-08	4.0168E-06	6.0471E-07
7.3000E-01	-1.4826E+00	8.0188E+01	2.0140E-05	1.0000E+01	-5.7184E-08	4.0162E-06	6.0254E-07
7.4000E-01	-1.4021E+00	8.0174E+01	2.0133E-05	1.0000E+01	-5.5866E-08	4.0157E-06	6.0051E-07
7.5000E-01	-1.3250E+00	8.0162E+01	2.0127E-05	1.0000E+01	-5.184E-08	4.0151E-06	5.9872E-07
7.6000E-01	-1.2517E+00	8.0149E+01	2.0120E-05	1.0000E+01	-5.2701E-08	4.0146E-06	5.9694E-07
7.7000E-01	-1.1807E+00	8.0138E+01	2.0114E-05	1.0000E+01	-5.1124E-08	4.0141E-06	5.9529E-07
7.8000E-01	-1.1133E+00	8.0127E+01	2.0109E-05	1.0000E+01	-4.8121E-08	4.0135E-06	5.9380E-07
7.9000E-01	-1.0489E+00	8.0117E+01	2.0103E-05	1.0000E+01	-4.9632E-08	4.0131E-06	5.9236E-07
8.0000E-01	-9.8746E-01	8.0110E+01	2.0098E-05	1.0000E+01	-4.6599E-08	4.0126E-06	5.9102E-07
8.1000E-01	-9.2889E-01	8.0107E+01	2.0093E-05	1.0000E+01	-4.5075E-08	4.0121E-06	5.8978E-07
8.2000E-01	-8.7303E-01	8.0098E+01	2.0088E-05	1.0000E+01	-4.3565E-08	4.0117E-06	5.8864E-07
8.3000E-01	-8.1995E-01	8.0090E+01	2.0083E-05	1.0000E+01	-4.2059E-08	4.0113E-06	5.8658E-07
8.4000E-01	-7.6921E-01	8.0082E+01	2.0078E-05	1.0000E+01	-4.0608E-08	4.0108E-06	5.8565E-07
8.5000E-01	-7.2105E-01	8.0074E+01	2.0074E-05	1.0000E+01	-3.9136E-08	4.0104E-06	5.8480E-07
8.6000E-01	-6.7526E-01	8.0068E+01	2.0070E-05	1.0000E+01	-3.7679E-08	4.0101E-06	5.8403E-07
8.7000E-01	-6.3176E-01	8.0055E+01	2.0066E-05	1.0000E+01	-3.6317E-08	4.0097E-06	5.8327E-07
8.8000E-01	-5.9127E-01	8.0049E+01	2.0062E-05	1.0000E+01	-3.4907E-08	4.0093E-06	5.8252E-07
8.9000E-01	-5.5127E-01	8.0044E+01	2.0058E-05	1.0000E+01	-3.3520E-08	4.0090E-06	5.8202E-07
9.0000E-01	-5.1412E-01	8.0039E+01	2.0055E-05	1.0000E+01	-3.2158E-08	4.0086E-06	5.8147E-07
9.1000E-01	-4.7890E-01	8.0034E+01	2.0052E-05	1.0000E+01	-3.0928E-08	4.0083E-06	5.8092E-07
9.2000E-01	-4.4557E-01	8.0030E+01	2.0049E-05	1.0000E+01	-2.9277E-08	4.0080E-06	5.8046E-07
9.3000E-01	-4.1403E-01	8.0026E+01	2.0046E-05	1.0000E+01	-2.8354E-08	4.0078E-06	5.8005E-07
9.4000E-01	-3.8420E-01	8.0022E+01	2.0043E-05	1.0000E+01	-2.7298E-08	4.0075E-06	5.8005E-07
9.5000E-01	-3.5601E-01	8.0019E+01	2.0040E-05	1.0000E+01	-2.6032E-08	4.0072E-06	5.7928E-07
9.6000E-01	-3.2941E-01	8.0016E+01	2.0038E-05	1.0000E+01	-2.4847E-08	4.0070E-06	5.7898E-07
9.7000E-01	-3.0430E-01	8.0013E+01	2.0035E-05	1.0000E+01	-2.3872E-08	4.0067E-06	5.7865E-07
9.8000E-01	-2.8081E-01	8.0010E+01	2.0033E-05	1.0000E+01	-2.2719E-08	4.0065E-06	5.7841E-07
1.0000E+00	-2.3734E-01	8.0008E+01	2.0031E-05	1.0000E+01	-2.1644E-08	4.0063E-06	5.7820E-07



ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE	27 VARIABLE	28 VARIABLE
0.0000E+00	1.4351E+00	9.0500E+01	6.0500E+00	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.0000E-02	1.2548E+00	6.3554E+01	1.2934E+02	8.6532E+02	0.0000E+00	2.5123E+00	7.1410E+02
2.0000E-02	1.6869E+00	6.6040E+01	1.2934E+02	8.7048E+02	0.0000E+00	2.4663E+00	7.0821E+02
3.0000E-02	1.9502E+00	1.0365E+02	1.2934E+02	8.7562E+02	0.0000E+00	2.4128E+00	7.0203E+02
4.0000E-02	1.7006E+00	9.8119E+01	1.2977E+02	8.8054E+02	0.0000E+00	2.3165E+00	7.0139E+02
5.0000E-02	1.4090E+00	8.1320E+01	1.2993E+02	8.8480E+02	0.0000E+00	1.9151E+00	7.0215E+02
6.0000E-02	1.1214E+00	6.3658E+01	1.2993E+02	8.8910E+02	0.0000E+00	1.7209E+00	7.0285E+02
7.0000E-02	9.1217E-01	5.3490E+01	1.2993E+02	8.9192E+02	0.0000E+00	1.5375E+00	7.0254E+02
8.0000E-02	8.0398E-01	4.5642E+01	1.2983E+02	8.9277E+02	0.0000E+00	1.3657E+00	7.0191E+02
9.0000E-02	7.8849E-01	4.4023E+01	1.2974E+02	8.9318E+02	0.0000E+00	1.2055E+00	7.0079E+02
1.0000E-01	8.4508E-01	4.7273E+01	1.2965E+02	8.9334E+02	0.0000E+00	1.0568E+00	6.9940E+02
1.1000E-01	9.5128E-01	5.1909E+01	1.2958E+02	8.9336E+02	0.0000E+00	9.1930E-01	6.9784E+02
1.2000E-01	1.0850E+00	5.9796E+01	1.2955E+02	8.9336E+02	0.0000E+00	7.9245E-01	6.9685E+02
1.3000E-01	1.2291E+00	6.8498E+01	1.2955E+02	8.9336E+02	0.0000E+00	6.7604E-01	6.9538E+02
1.4000E-01	1.3716E+00	7.8166E+01	1.2959E+02	8.9339E+02	0.0000E+00	5.6950E-01	6.9426E+02
1.5000E-01	1.5040E+00	8.3156E+01	1.2966E+02	8.9366E+02	0.0000E+00	4.7230E-01	6.9343E+02
1.6000E-01	1.6215E+00	9.0371E+01	1.2977E+02	8.9392E+02	0.0000E+00	3.8411E-01	6.9273E+02
1.7000E-01	1.7218E+00	9.5055E+01	1.2991E+02	8.9425E+02	0.0000E+00	3.0424E-01	6.9224E+02
1.8000E-01	1.8043E+00	1.0029E+02	1.3008E+02	8.9464E+02	0.0000E+00	2.3222E-01	6.9193E+02
1.9000E-01	1.8699E+00	1.0439E+02	1.3025E+02	8.9464E+02	0.0000E+00	1.6753E-01	6.9176E+02
2.0000E-01	1.9195E+00	1.0747E+02	1.3045E+02	8.9509E+02	0.0000E+00	1.0964E-01	6.9176E+02
2.1000E-01	1.9573E+00	1.0917E+02	1.3067E+02	8.9571E+02	0.0000E+00	5.8036E-02	6.9185E+02
2.2000E-01	1.9794E+00	1.1072E+02	1.3089E+02	8.9607E+02	0.0000E+00	1.2248E-02	6.9199E+02
2.3000E-01	1.9929E+00	1.1159E+02	1.3112E+02	8.9659E+02	0.0000E+00	-2.8204E-02	6.9255E+02
2.4000E-01	1.9975E+00	1.1186E+02	1.3134E+02	8.9711E+02	0.0000E+00	-6.3785E-02	6.9265E+02
2.5000E-01	1.9950E+00	1.1178E+02	1.3179E+02	8.9762E+02	0.0000E+00	-9.4902E-02	6.9285E+02
2.6000E-01	1.9739E+00	1.1054E+02	1.3179E+02	8.9813E+02	0.0000E+00	-1.2193E-01	6.9324E+02
2.7000E-01	1.9569E+00	1.0879E+02	1.3223E+02	8.9861E+02	0.0000E+00	-1.4527E-01	6.9364E+02
2.8000E-01	1.9155E+00	1.0731E+02	1.3244E+02	8.9908E+02	0.0000E+00	-1.8528E-01	6.9406E+02
2.9000E-01	1.8920E+00	1.0625E+02	1.3285E+02	8.9944E+02	0.0000E+00	-2.3822E-01	6.9441E+02
3.0000E-01	1.8673E+00	1.0478E+02	1.3284E+02	7.0070E+02	0.0000E+00	-2.9819E-01	6.9483E+02
3.1000E-01	1.8420E+00	1.0325E+02	1.3322E+02	7.0104E+02	0.0000E+00	-2.1772E-01	6.9525E+02
3.2000E-01	1.8164E+00	1.0208E+02	1.3340E+02	7.0135E+02	0.0000E+00	-2.2526E-01	6.9559E+02
3.3000E-01	1.7903E+00	1.0051E+02	1.3340E+02	7.0163E+02	0.0000E+00	-2.3103E-01	6.9598E+02
3.4000E-01	1.7645E+00	9.8952E+01	1.3373E+02	7.0189E+02	0.0000E+00	-2.3522E-01	6.9638E+02
3.5000E-01	1.7391E+00	9.7405E+01	1.3393E+02	7.0212E+02	0.0000E+00	-2.3798E-01	6.9704E+02
3.6000E-01	1.7139E+00	9.6260E+01	1.3404E+02	7.0233E+02	0.0000E+00	-2.3994E-01	6.9770E+02
3.7000E-01	1.6891E+00	9.4763E+01	1.3416E+02	7.0269E+02	0.0000E+00	-2.3935E-01	6.9796E+02
3.8000E-01	1.6651E+00	9.3302E+01	1.3431E+02	7.0283E+02	0.0000E+00	-2.3792E-01	6.9825E+02
3.9000E-01	1.6419E+00	9.2235E+01	1.3444E+02	7.0296E+02	0.0000E+00	-2.3576E-01	6.9852E+02
4.0000E-01	1.6189E+00	9.0851E+01	1.3456E+02	7.0307E+02	0.0000E+00	-2.3293E-01	6.9873E+02
4.1000E-01	1.5969E+00	8.9516E+01	1.3468E+02	7.0316E+02	0.0000E+00	-2.2954E-01	6.9897E+02
4.2000E-01	1.5757E+00	8.8547E+01	1.3479E+02	7.0324E+02	0.0000E+00	-2.2567E-01	6.9919E+02
4.3000E-01	1.5552E+00	8.7299E+01	1.3489E+02	7.0331E+02	0.0000E+00	-2.2140E-01	6.9937E+02
4.4000E-01	1.5355E+00	8.6102E+01	1.3499E+02	7.0336E+02	0.0000E+00	-2.1676E-01	6.9956E+02
4.5000E-01						-2.1185E-01	6.9974E+02

4.7000E-01	1.5167E+00	8.4956E+01	1.3508E+02	7.0339E+02	0.0000E+00	-2.0670E-01	6.9991E+02
4.8000E-01	1.4985E+00	8.4130E+01	1.3517E+02	7.0342E+02	0.0000E+00	-2.0135E-01	7.0004E+02
4.9000E-01	1.4811E+00	8.3073E+01	1.3525E+02	7.0344E+02	0.0000E+00	-1.9588E-01	7.0019E+02
5.0000E-01	1.4646E+00	8.2065E+01	1.3533E+02	7.0344E+02	0.0000E+00	-1.9028E-01	7.0032E+02
5.1000E-01	1.4489E+00	8.1341E+01	1.3540E+02	7.0344E+02	0.0000E+00	-1.8458E-01	7.0042E+02
5.2000E-01	1.4336E+00	8.0417E+01	1.3547E+02	7.0343E+02	0.0000E+00	-1.7884E-01	7.0053E+02
5.3000E-01	1.4192E+00	7.9539E+01	1.3553E+02	7.0342E+02	0.0000E+00	-1.7310E-01	7.0063E+02
5.4000E-01	1.4055E+00	7.8706E+01	1.3559E+02	7.0340E+02	0.0000E+00	-1.6735E-01	7.0072E+02
5.5000E-01	1.3923E+00	7.8110E+01	1.3565E+02	7.0337E+02	0.0000E+00	-1.6162E-01	7.0079E+02
5.6000E-01	1.3795E+00	7.7551E+01	1.3570E+02	7.0334E+02	0.0000E+00	-1.5594E-01	7.0087E+02
5.7000E-01	1.3681E+00	7.6933E+01	1.3575E+02	7.0330E+02	0.0000E+00	-1.5031E-01	7.0094E+02
5.8000E-01	1.3589E+00	7.6121E+01	1.3580E+02	7.0326E+02	0.0000E+00	-1.4475E-01	7.0105E+02
5.9000E-01	1.3462E+00	7.5470E+01	1.3584E+02	7.0321E+02	0.0000E+00	-1.3928E-01	7.0110E+02
6.0000E-01	1.3268E+00	7.4856E+01	1.3588E+02	7.0317E+02	0.0000E+00	-1.3389E-01	7.0114E+02
6.1000E-01	1.3081E+00	7.4418E+01	1.3592E+02	7.0312E+02	0.0000E+00	-1.2861E-01	7.0118E+02
6.2000E-01	1.3175E+00	7.3863E+01	1.3595E+02	7.0307E+02	0.0000E+00	-1.2344E-01	7.0121E+02
6.3000E-01	1.3089E+00	7.3341E+01	1.3598E+02	7.0301E+02	0.0000E+00	-1.1838E-01	7.0124E+02
6.4000E-01	1.3009E+00	7.2849E+01	1.3602E+02	7.0296E+02	0.0000E+00	-1.1344E-01	7.0128E+02
6.5000E-01	1.2931E+00	7.2499E+01	1.3605E+02	7.0290E+02	0.0000E+00	-1.0863E-01	7.0132E+02
6.6000E-01	1.2859E+00	7.2056E+01	1.3607E+02	7.0284E+02	0.0000E+00	-1.0394E-01	7.0136E+02
6.7000E-01	1.2791E+00	7.1643E+01	1.3610E+02	7.0279E+02	0.0000E+00	-9.9389E-02	7.0139E+02
6.8000E-01	1.2726E+00	7.1348E+01	1.3612E+02	7.0273E+02	0.0000E+00	-9.4965E-02	7.0133E+02
6.9000E-01	1.2666E+00	7.0977E+01	1.3614E+02	7.0267E+02	0.0000E+00	-9.0673E-02	7.0134E+02
7.0000E-01	1.2609E+00	7.0630E+01	1.3616E+02	7.0261E+02	0.0000E+00	-8.6516E-02	7.0134E+02
7.1000E-01	1.2554E+00	7.0384E+01	1.3618E+02	7.0255E+02	0.0000E+00	-8.2493E-02	7.0134E+02
7.2000E-01	1.2502E+00	7.0074E+01	1.3620E+02	7.0250E+02	0.0000E+00	-7.8481E-02	7.0135E+02
7.3000E-01	1.2415E+00	6.9515E+01	1.3622E+02	7.0244E+02	0.0000E+00	-7.4483E-02	7.0135E+02
7.4000E-01	1.2315E+00	6.9324E+01	1.3624E+02	7.0238E+02	0.0000E+00	-7.0497E-02	7.0136E+02
7.5000E-01	1.2312E+00	6.9085E+01	1.3625E+02	7.0232E+02	0.0000E+00	-6.7118E-02	7.0136E+02
7.6000E-01	1.2332E+00	6.8882E+01	1.3626E+02	7.0227E+02	0.0000E+00	-6.4347E-02	7.0135E+02
7.7000E-01	1.2295E+00	6.8622E+01	1.3627E+02	7.0221E+02	0.0000E+00	-6.1103E-02	7.0135E+02
7.8000E-01	1.2261E+00	6.8705E+01	1.3628E+02	7.0217E+02	0.0000E+00	-5.7883E-02	7.0134E+02
7.9000E-01	1.2229E+00	6.8509E+01	1.3628E+02	7.0211E+02	0.0000E+00	-5.4984E-02	7.0134E+02
8.0000E-01	1.2199E+00	6.8327E+01	1.3629E+02	7.0206E+02	0.0000E+00	-5.2103E-02	7.0132E+02
8.1000E-01	1.2171E+00	6.8158E+01	1.3629E+02	7.0201E+02	0.0000E+00	-4.9339E-02	7.0132E+02
8.2000E-01	1.2145E+00	6.8039E+01	1.3630E+02	7.0196E+02	0.0000E+00	-4.6688E-02	7.0132E+02
8.3000E-01	1.2121E+00	6.7892E+01	1.3630E+02	7.0192E+02	0.0000E+00	-4.4148E-02	7.0131E+02
8.4000E-01	1.2098E+00	6.7755E+01	1.3631E+02	7.0187E+02	0.0000E+00	-4.1715E-02	7.0130E+02
8.5000E-01	1.2078E+00	6.7660E+01	1.3631E+02	7.0183E+02	0.0000E+00	-3.9387E-02	7.0129E+02
8.6000E-01	1.2058E+00	6.7541E+01	1.3632E+02	7.0178E+02	0.0000E+00	-3.7160E-02	7.0128E+02
8.7000E-01	1.2041E+00	6.7433E+01	1.3632E+02	7.0174E+02	0.0000E+00	-3.5033E-02	7.0127E+02
8.8000E-01	1.2024E+00	6.7337E+01	1.3632E+02	7.0170E+02	0.0000E+00	-3.3001E-02	7.0126E+02
8.9000E-01	1.2009E+00	6.7263E+01	1.3632E+02	7.0166E+02	0.0000E+00	-3.1062E-02	7.0125E+02
9.0000E-01	1.1995E+00	6.7177E+01	1.3632E+02	7.0162E+02	0.0000E+00	-2.9212E-02	7.0124E+02
9.1000E-01	1.1982E+00	6.7099E+01	1.3632E+02	7.0159E+02	0.0000E+00	-2.7449E-02	7.0122E+02
9.2000E-01	1.1970E+00	6.7044E+01	1.3632E+02	7.0155E+02	0.0000E+00	-2.5771E-02	7.0121E+02
9.3000E-01	1.1959E+00	6.6978E+01	1.3632E+02	7.0152E+02	0.0000E+00	-2.4173E-02	7.0120E+02
9.4000E-01	1.1949E+00	6.6917E+01	1.3632E+02	7.0148E+02	0.0000E+00	-2.2652E-02	7.0119E+02
9.5000E-01	1.1940E+00	6.6876E+01	1.3632E+02	7.0145E+02	0.0000E+00	-2.1207E-02	7.0118E+02
9.6000E-01	1.1932E+00	6.6825E+01	1.3632E+02	7.0142E+02	0.0000E+00	-1.9835E-02	7.0117E+02
9.7000E-01	1.1924E+00	6.6779E+01	1.3632E+02	7.0139E+02	0.0000E+00	-1.8531E-02	7.0116E+02
9.8000E-01	1.1918E+00	6.6748E+01	1.3632E+02	7.0136E+02	0.0000E+00	-1.7295E-02	7.0115E+02
9.9000E-01	1.1912E+00	6.6711E+01	1.3632E+02	7.0133E+02	0.0000E+00	-1.6123E-02	7.0114E+02
1.0000E+00	1.1906E+00	6.6677E+01	1.3632E+02	7.0131E+02	0.0000E+00	-1.5013E-02	7.0112E+02

Appendix #41.

ITERATIVE METHOD. TIME RESPONSE

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COEFFICIENTS VALUES.

1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.6280E+02	2.1589E-10	3.3566E+03	2.7800E+01	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E-06	2.0000E+01	5.5611E-01	1.7000E-08	8.2600E+01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	8.0000E-01						

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TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.0000E+00	1.0250E+01	-1.5578E-07	-1.4544E-03	-2.7681E-02	1.7791E-01	6.8189E-01	2.8389E-07
5.0000E-03	1.0250E+01	2.3446E-06	6.0284E-03	1.3764E+00	1.6577E-01	2.3052E+00	5.0952E-05
1.0000E-02	1.0250E+01	2.2777E-06	1.0746E-02	1.0412E+00	1.9178E-01	2.0001E+00	3.0324E-05
1.5000E-02	1.0250E+01	2.1482E-06	1.3441E-02	7.8198E-01	1.9631E-01	1.7835E+00	1.5486E-05
2.0000E-02	1.0250E+01	1.9851E-06	1.4707E-02	5.8426E-01	1.9970E-01	1.5826E+00	5.8672E-06
2.5000E-02	1.0250E+01	1.8108E-06	1.5003E-02	4.3688E-01	2.0223E-01	1.4480E+00	1.9457E-06
3.0000E-02	1.0250E+01	1.6382E-06	1.4672E-02	3.2879E-01	2.0413E-01	1.3495E+00	3.3395E-06
3.5000E-02	1.0250E+01	1.4739E-06	1.3958E-02	2.4998E-01	2.0557E-01	1.2778E+00	5.1298E-06
4.0000E-02	1.0250E+01	1.3206E-06	1.3030E-02	1.9229E-01	2.0687E-01	1.2256E+00	8.2275E-06
4.5000E-02	1.0250E+01	1.1791E-06	1.2001E-02	1.4947E-01	2.0752E-01	1.1871E+00	6.1728E-06
5.0000E-02	1.0250E+01	1.0492E-06	1.0943E-02	1.1701E-01	2.0816E-01	1.1579E+00	5.9585E-06
5.5000E-02	1.0250E+01	9.3015E-07	9.8995E-03	9.1751E-02	2.0870E-01	1.1352E+00	5.9402E-06
6.0000E-02	1.0250E+01	8.2119E-07	8.8988E-03	7.1508E-02	2.0911E-01	1.1176E+00	5.9128E-06
6.5000E-02	1.0250E+01	7.2145E-07	7.9487E-03	5.4812E-02	2.0942E-01	1.1019E+00	5.8844E-06
7.0000E-02	1.0250E+01	6.3014E-07	7.0615E-03	4.0680E-02	2.0966E-01	1.0890E+00	5.8572E-06
7.5000E-02	1.0250E+01	5.4650E-07	6.2371E-03	2.8453E-02	2.0983E-01	1.0776E+00	5.8304E-06
8.0000E-02	1.0250E+01	4.6986E-07	5.4743E-03	1.7697E-02	2.0995E-01	1.0674E+00	5.8045E-06
8.5000E-02	1.0250E+01	3.9961E-07	4.7707E-03	8.0887E-03	2.1001E-01	1.0581E+00	5.7791E-06
9.0000E-02	1.0250E+01	3.3521E-07	4.1259E-03	5.3019E-03	2.1003E-01	1.0417E+00	5.7544E-06
1.0000E-01	1.0250E+01	2.7616E-07	3.5273E-03	3.5429E-03	2.1005E-01	1.0274E+00	5.7302E-06
1.0500E-01	1.0250E+01	2.2205E-07	2.9801E-03	2.8429E-03	2.0995E-01	1.0143E+00	5.7067E-06
1.1000E-01	1.0250E+01	1.7241E-07	2.4778E-03	2.1883E-02	2.0985E-01	1.0029E+00	5.6840E-06
1.1500E-01	1.0250E+01	1.2694E-07	2.0168E-03	1.5941E-03	2.0973E-01	1.0148E+00	5.6620E-06
1.2000E-01	1.0250E+01	8.5280E-08	1.5941E-03	9.3117E-02	2.0958E-01	1.0090E+00	5.6406E-06
1.2500E-01	1.0250E+01	4.7137E-08	1.2065E-03	3.7991E-02	2.0940E-01	1.0036E+00	5.6198E-06
1.3000E-01	1.0250E+01	1.9691E-08	8.5132E-04	4.2423E-02	2.0920E-01	1.0036E+00	5.5991E-06
1.3500E-01	1.0250E+01	1.0250E+01	5.2604E-04	4.6447E-02	2.0897E-01	1.0036E+00	5.5789E-06
1.4000E-01	1.0250E+01	4.8860E-08	2.2830E-04	5.0092E-02	2.0873E-01	9.9842E-01	5.5591E-06
1.4500E-01	1.0250E+01	2.5490E-08	4.4059E-05	5.3388E-02	2.0847E-01	9.9357E-01	5.5398E-06
1.5000E-01	1.0250E+01	1.2190E-07	2.9300E-04	5.6361E-02	2.0820E-01	9.8898E-01	5.5210E-06
1.5500E-01	1.0250E+01	6.2020E-07	5.2035E-04	5.9034E-02	2.0791E-01	9.8463E-01	5.5026E-06
1.6000E-01	1.0250E+01	1.4202E-07	7.2777E-04	6.1428E-02	2.0761E-01	9.8052E-01	5.4846E-06
1.6500E-01	1.0250E+01	6.0300E-07	9.1679E-04	6.3565E-02	2.0730E-01	9.7662E-01	5.4672E-06
1.7000E-01	1.0250E+01	1.7688E-07	1.0888E-03	6.5463E-02	2.0697E-01	9.7297E-01	5.4508E-06
1.7500E-01	1.0250E+01	9.187E-07	1.2452E-03	6.7138E-02	2.0664E-01	9.6941E-01	5.4354E-06
1.8000E-01	1.0250E+01	2.0541E-07	1.3870E-03	6.8608E-02	2.0630E-01	9.6607E-01	5.4201E-06
1.8500E-01	1.0250E+01	2.1760E-07	1.5155E-03	6.9886E-02	2.0596E-01	9.6291E-01	5.4049E-06
1.9000E-01	1.0250E+01	2.2654E-07	1.6165E-03	7.0987E-02	2.0560E-01	9.5980E-01	5.3898E-06
1.9500E-01	1.0250E+01	2.3323E-07	1.7362E-03	7.1923E-02	2.0525E-01	9.5703E-01	5.3748E-06
2.0000E-01	1.0250E+01	2.3707E-07	1.8302E-03	7.2709E-02	2.0489E-01	9.5431E-01	5.3598E-06
2.0500E-01	1.0250E+01	2.3848E-07	1.9144E-03	7.3347E-02	2.0452E-01	9.5172E-01	5.3449E-06
2.1000E-01	1.0250E+01	2.3759E-07	1.9896E-03	7.3856E-02	2.0415E-01	9.4925E-01	5.3300E-06
2.1500E-01	1.0250E+01	2.2.6157E-07	2.0563E-03	7.4242E-02	2.0378E-01	9.4690E-01	5.3152E-06
2.2000E-01	1.0250E+01	2.2.2720E-07	2.1153E-03	7.4514E-02	2.0341E-01	9.4467E-01	5.3004E-06
2.2500E-01	1.0250E+01	2.2.7714E-07	2.1871E-03	7.4680E-02	2.0304E-01	9.4250E-01	5.2856E-06

2.2500E-01 1.0250E+01 -2.8091E-07 -2.2122E-03 -7.4748E-02 2.0266E-01 9.3857E-01 -6.4326E-07  
2.3000E-01 1.0250E+01 -2.8604E-07 -2.2511E-03 -7.4725E-02 2.0229E-01 9.3672E-01 -6.1153E-07  
2.3500E-01 1.0250E+01 -2.8660E-07 -2.2844E-03 -7.4618E-02 2.0192E-01 9.3496E-01 -5.8173E-07  
2.4000E-01 1.0250E+01 -2.8662E-07 -2.3121E-03 -7.4432E-02 2.0154E-01 9.3328E-01 -5.5361E-07  
2.4500E-01 1.0250E+01 -2.9014E-07 -2.3350E-03 -7.4173E-02 2.0117E-01 9.3169E-01 -5.2709E-07  
2.5000E-01 1.0250E+01 -2.9120E-07 -2.3534E-03 -7.3848E-02 2.0080E-01 9.3016E-01 -5.0211E-07  
2.5500E-01 1.0250E+01 -2.9194E-07 -2.3678E-03 -7.3481E-02 2.0043E-01 9.2871E-01 -4.7853E-07  
2.6000E-01 1.0250E+01 -2.9208E-07 -2.3779E-03 -7.3017E-02 2.0007E-01 9.2732E-01 -4.5624E-07  
2.6500E-01 1.0250E+01 -2.9195E-07 -2.3845E-03 -7.2520E-02 1.9970E-01 9.2600E-01 -4.3513E-07  
2.7000E-01 1.0250E+01 -2.9070E-07 -2.3878E-03 -7.1975E-02 1.9934E-01 9.2474E-01 -4.1511E-07  
2.7500E-01 1.0250E+01 -2.8964E-07 -2.3853E-03 -7.1375E-02 1.9898E-01 9.2353E-01 -3.9610E-07  
2.8000E-01 1.0250E+01 -2.8831E-07 -2.3800E-03 -7.0755E-02 1.9863E-01 9.2239E-01 -3.7807E-07  
2.8500E-01 1.0250E+01 -2.8673E-07 -2.3723E-03 -6.9866E-02 1.9828E-01 9.2129E-01 -3.6092E-07  
2.9000E-01 1.0250E+01 -2.8493E-07 -2.3623E-03 -6.8864E-02 1.9793E-01 9.2025E-01 -3.4461E-07  
3.0000E-01 1.0250E+01 -2.8292E-07 -2.3502E-03 -6.7894E-02 1.9758E-01 9.1926E-01 -3.2907E-07  
3.0500E-01 1.0250E+01 -2.8072E-07 -2.3362E-03 -6.6854E-02 1.9724E-01 9.1831E-01 -3.1424E-07  
3.1000E-01 1.0250E+01 -2.7835E-07 -2.3205E-03 -6.5708E-02 1.9690E-01 9.1741E-01 -3.0010E-07  
3.1500E-01 1.0250E+01 -2.7582E-07 -2.3031E-03 -6.4500E-02 1.9657E-01 9.1655E-01 -2.8667E-07  
3.2000E-01 1.0250E+01 -2.7315E-07 -2.2843E-03 -6.3246E-02 1.9624E-01 9.1573E-01 -2.7384E-07  
3.2500E-01 1.0250E+01 -2.7035E-07 -2.2641E-03 -6.1948E-02 1.9592E-01 9.1495E-01 -2.6157E-07  
3.3000E-01 1.0250E+01 -2.6742E-07 -2.2427E-03 -6.0612E-02 1.9528E-01 9.1421E-01 -2.4984E-07  
3.3500E-01 1.0250E+01 -2.6439E-07 -2.2202E-03 -5.9240E-02 1.9528E-01 9.1350E-01 -2.3861E-07  
3.4000E-01 1.0250E+01 -2.6127E-07 -2.1976E-03 -5.7835E-02 1.9497E-01 9.1283E-01 -2.2785E-07  
3.4500E-01 1.0250E+01 -2.5805E-07 -2.1743E-03 -5.6400E-02 1.9466E-01 9.1219E-01 -2.1758E-07  
3.5000E-01 1.0250E+01 -2.5477E-07 -2.1507E-03 -5.4935E-02 1.9435E-01 9.1158E-01 -2.0780E-07  
3.5500E-01 1.0250E+01 -2.5141E-07 -2.1270E-03 -5.3450E-02 1.9405E-01 9.1100E-01 -1.9843E-07  
3.6000E-01 1.0250E+01 -2.4799E-07 -2.1023E-03 -5.1945E-02 1.9376E-01 9.1045E-01 -1.8944E-07  
3.6500E-01 1.0250E+01 -2.4452E-07 -2.0769E-03 -5.0420E-02 1.9347E-01 9.0992E-01 -1.8081E-07  
3.7000E-01 1.0250E+01 -2.4101E-07 -2.0511E-03 -4.8875E-02 1.9319E-01 9.0943E-01 -1.7252E-07  
3.7500E-01 1.0250E+01 -2.3748E-07 -2.0249E-03 -4.7310E-02 1.9291E-01 9.0896E-01 -1.6457E-07  
3.8000E-01 1.0250E+01 -2.3387E-07 -1.9985E-03 -4.5725E-02 1.9263E-01 9.0851E-01 -1.5699E-07  
3.8500E-01 1.0250E+01 -2.3027E-07 -1.9725E-03 -4.4120E-02 1.9236E-01 9.0808E-01 -1.4976E-07  
3.9000E-01 1.0250E+01 -2.2664E-07 -1.9464E-03 -4.2495E-02 1.9209E-01 9.0768E-01 -1.4281E-07  
3.9500E-01 1.0250E+01 -2.2299E-07 -1.9204E-03 -4.0850E-02 1.9183E-01 9.0730E-01 -1.3613E-07  
4.0000E-01 1.0250E+01 -2.1934E-07 -1.8946E-03 -3.9185E-02 1.9158E-01 9.0694E-01 -1.2970E-07  
4.0500E-01 1.0250E+01 -2.1568E-07 -1.8693E-03 -3.7500E-02 1.9132E-01 9.0660E-01 -1.2352E-07  
4.1000E-01 1.0250E+01 -2.1202E-07 -1.8442E-03 -3.5795E-02 1.9108E-01 9.0627E-01 -1.1757E-07  
4.1500E-01 1.0250E+01 -2.0836E-07 -1.8191E-03 -3.4080E-02 1.9083E-01 9.0597E-01 -1.1195E-07  
4.2000E-01 1.0250E+01 -2.0471E-07 -1.7940E-03 -3.2355E-02 1.9059E-01 9.0568E-01 -1.0655E-07  
4.2500E-01 1.0250E+01 -2.0107E-07 -1.7689E-03 -3.0620E-02 1.9036E-01 9.0541E-01 -1.0135E-07  
4.3000E-01 1.0250E+01 -1.9744E-07 -1.7438E-03 -2.8885E-02 1.9013E-01 9.0515E-01 -9.6341E-08  
4.3500E-01 1.0250E+01 -1.9382E-07 -1.7187E-03 -2.7150E-02 1.8990E-01 9.0491E-01 -9.1519E-08  
4.4000E-01 1.0250E+01 -1.9024E-07 -1.6936E-03 -2.5415E-02 1.8968E-01 9.0469E-01 -8.6874E-08  
4.4500E-01 1.0250E+01 -1.8666E-07 -1.6685E-03 -2.3680E-02 1.8947E-01 9.0448E-01 -8.2413E-08  
4.5000E-01 1.0250E+01 -1.8311E-07 -1.6434E-03 -2.1945E-02 1.8925E-01 9.0428E-01 -7.8208E-08  
4.5500E-01 1.0250E+01 -1.7959E-07 -1.6183E-03 -2.0210E-02 1.8905E-01 9.0409E-01 -7.4156E-08  
4.6000E-01 1.0250E+01 -1.7609E-07 -1.5931E-03 -1.8475E-02 1.8884E-01 9.0392E-01 -7.0250E-08  
4.6500E-01 1.0250E+01 -1.7262E-07 -1.5680E-03 -1.6690E-02 1.8864E-01 9.0376E-01 -6.6485E-08  
4.7000E-01 1.0250E+01 -1.6919E-07 -1.5429E-03 -1.4925E-02 1.8845E-01 9.0361E-01 -6.2856E-08  
4.7500E-01 1.0250E+01 -1.6578E-07 -1.5178E-03 -1.3180E-02 1.8826E-01 9.0347E-01 -5.9358E-08  
4.8000E-01 1.0250E+01 -1.6241E-07 -1.4927E-03 -1.1455E-02 1.8807E-01 9.0334E-01 -5.6022E-08  
4.8500E-01 1.0250E+01 -1.5908E-07 -1.4676E-03 -1.0750E-02 1.8789E-01 9.0322E-01 -5.2865E-08  
4.9000E-01 1.0250E+01 -1.5578E-07 -1.4425E-03 -1.0075E-02 1.8771E-01 9.0310E-01 -4.9821E-08  
4.9500E-01 1.0250E+01 -1.5252E-07 -1.4174E-03 -9.4200E-03 1.8753E-01 9.0300E-01 -4.6885E-08  
5.0000E-01 1.0250E+01 -1.4930E-07 -1.3923E-03 -8.7855E-03 1.8736E-01 9.0291E-01 -4.4054E-08  
5.0500E-01 1.0250E+01 -1.4609E-07 -1.3672E-03 -8.1510E-03 1.8719E-01 9.0283E-01 -4.1324E-08

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	8 VARIABLE	9 VARIABLE	10 VARIABLE	11 VARIABLE	12 VARIABLE	13 VARIABLE	14 VARIABLE
0.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.6330E-05	5.9000E-04	0.0000E+00	1.8940E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.6780E+02	1.589E-10	3.3566E+03	2.7800E+01	1.7780E-02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	4.0000E+00	3.6500E-08	2.0000E+01	5.9611E-01	1.7000E+08	8.2600E+01	5.8000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	8.0000E+01						
0.0000E+00	9.5975E-10	6.2807E-07	2.5730E-02	4.4104E+00	7.1801E+02	3.2741E+01	3.9134E+03
5.0000E-03	1.1397E-09	8.2866E-07	2.8541E-02	4.8748E+00	7.8619E+02	1.0089E+02	4.4389E+03
1.0000E-02	1.2584E-09	7.4013E-07	2.7226E-02	4.8027E+00	7.8849E+02	1.0360E+02	5.5274E+03
2.0000E-02	1.3244E-08	6.6118E-07	2.7381E-02	4.6805E+00	7.6685E+02	8.2819E+01	6.2415E+03
3.0000E-02	1.3547E-08	6.1940E-07	2.7223E-02	4.5852E+00	7.4873E+02	6.5671E+01	6.5843E+03
4.0000E-02	1.3626E-08	6.0439E-07	2.6954E-02	4.5239E+00	7.3730E+02	5.5078E+01	6.8211E+03
5.0000E-02	1.3573E-08	6.0324E-07	2.6685E-02	4.4875E+00	7.3075E+02	4.9150E+01	6.8431E+03
6.0000E-02	1.3445E-08	6.0770E-07	2.6460E-02	4.4668E+00	7.2868E+02	4.7461E+01	6.5367E+03
7.0000E-02	1.3280E-08	6.1384E-07	2.6289E-02	4.4557E+00	7.2603E+02	4.4986E+01	6.4017E+03
8.0000E-02	1.3099E-08	6.1881E-07	2.6164E-02	4.4491E+00	7.2460E+02	4.3582E+01	6.2607E+03
9.0000E-02	1.2915E-08	6.2282E-07	2.6078E-02	4.4453E+00	7.2381E+02	4.2729E+01	6.1233E+03
1.0000E-01	1.2736E-08	6.2573E-07	2.6019E-02	4.4430E+00	7.2338E+02	4.2155E+01	5.9934E+03
2.0000E-01	1.2566E-08	6.2771E-07	2.5978E-02	4.4414E+00	7.2308E+02	4.1722E+01	5.8730E+03
3.0000E-01	1.2405E-08	6.2898E-07	2.5951E-02	4.4402E+00	7.2287E+02	4.1360E+01	5.7629E+03
4.0000E-01	1.2256E-08	6.2975E-07	2.5932E-02	4.4391E+00	7.2278E+02	4.1126E+01	5.6608E+03
5.0000E-01	1.2116E-08	6.3016E-07	2.5918E-02	4.4381E+00	7.2259E+02	4.0924E+01	5.5674E+03
6.0000E-01	1.1987E-08	6.3031E-07	2.5907E-02	4.4370E+00	7.2239E+02	4.0540E+01	5.4819E+03
7.0000E-01	1.1868E-08	6.3017E-07	2.5897E-02	4.4357E+00	7.2219E+02	4.0269E+01	5.4034E+03
8.0000E-01	1.1758E-08	6.3017E-07	2.5888E-02	4.4344E+00	7.2195E+02	4.0087E+01	5.3312E+03
9.0000E-01	1.1655E-08	6.2997E-07	2.5880E-02	4.4329E+00	7.2170E+02	3.9974E+01	5.2646E+03
1.0000E-01	1.1561E-08	6.2972E-07	2.5872E-02	4.4314E+00	7.2144E+02	3.9912E+01	5.2032E+03
1.1000E-01	1.1473E-08	6.2948E-07	2.5865E-02	4.4299E+00	7.2118E+02	3.9846E+01	5.1463E+03
1.2000E-01	1.1391E-08	6.2925E-07	2.5858E-02	4.4283E+00	7.2093E+02	3.9789E+01	5.0935E+03
1.3000E-01	1.1315E-08	6.2902E-07	2.5851E-02	4.4268E+00	7.2075E+02	3.9740E+01	5.0445E+03
1.4000E-01	1.1245E-08	6.2879E-07	2.5845E-02	4.4252E+00	7.2047E+02	3.9695E+01	4.9990E+03
1.5000E-01	1.118E-08	6.2857E-07	2.5837E-02	4.4237E+00	7.2020E+02	3.9652E+01	4.9567E+03
1.6000E-01	1.118E-08	6.2837E-07	2.5831E-02	4.4221E+00	7.1994E+02	3.9611E+01	4.9173E+03
1.7000E-01	1.1081E-08	6.2817E-07	2.5826E-02	4.4207E+00	7.1969E+02	3.9573E+01	4.8805E+03
1.8000E-01	1.0988E-08	6.2803E-07	2.5821E-02	4.4193E+00	7.1958E+02	3.9539E+01	4.8460E+03
1.9000E-01	1.0958E-08	6.2789E-07	2.5816E-02	4.4180E+00	7.1933E+02	3.9512E+01	4.8137E+03
2.0000E-01	1.0912E-08	6.2777E-07	2.5814E-02	4.4168E+00	7.1910E+02	3.9496E+01	4.7836E+03
2.1000E-01	1.0868E-08	6.2766E-07	2.5812E-02	4.4156E+00	7.1890E+02	3.9489E+01	4.7553E+03
2.2000E-01	1.0827E-08	6.2756E-07	2.5810E-02	4.4145E+00	7.1870E+02	3.9482E+01	4.7287E+03
2.3000E-01	1.0789E-08	6.2747E-07	2.5808E-02	4.4135E+00	7.1852E+02	3.9482E+01	4.7038E+03
2.4000E-01	1.0753E-08	6.2739E-07	2.5806E-02	4.4125E+00	7.1844E+02	3.9483E+01	4.6803E+03
2.5000E-01	1.0719E-08	6.2734E-07	2.5805E-02	4.4117E+00	7.1828E+02	3.9483E+01	4.6581E+03
2.6000E-01	1.0687E-08	6.2729E-07	2.5804E-02	4.4109E+00	7.1814E+02	3.9483E+01	4.6372E+03
2.7000E-01	1.0657E-08	6.2725E-07	2.5803E-02	4.4102E+00	7.1801E+02	3.9483E+01	4.6175E+03
2.8000E-01	1.0629E-08	6.2722E-07	2.5802E-02	4.4096E+00	7.1788E+02	3.9483E+01	4.5989E+03
2.9000E-01	1.0602E-08	6.2719E-07	2.5801E-02	4.4090E+00	7.1778E+02	3.9483E+01	4.5813E+03
3.0000E-01	1.0576E-08	6.2716E-07	2.5800E-02	4.4084E+00	7.1769E+02	3.9483E+01	4.5646E+03
2.1000E-01	1.0552E-08	6.2714E-07	2.5799E-02	4.4080E+00	7.1765E+02	3.9483E+01	4.5488E+03
2.2000E-01	1.0529E-08	6.2714E-07	2.5798E-02	4.4080E+00	7.1759E+02	3.9483E+01	4.5338E+03
2.3000E-01	1.0508E-08	6.2713E-07	2.5797E-02	4.4075E+00	7.1751E+02	3.9483E+01	4.5195E+03
2.4000E-01	1.0487E-08	6.2713E-07	2.5796E-02	4.4072E+00	7.1745E+02	3.9483E+01	4.5060E+03
2.5000E-01	1.0468E-08	6.2713E-07	2.5795E-02	4.4066E+00	7.1740E+02	3.9483E+01	4.4931E+03
2.6000E-01	1.0449E-08	6.2713E-07	2.5794E-02	4.4063E+00	7.1735E+02	3.9483E+01	4.4809E+03

2.3500E-01	1.0432E-09	6.2713E-07	2.5710E-02	4.4061E+00	7.1732E+02	3.6331E+01	4.4693E+03
2.4000E-01	1.0415E-09	6.2714E-07	2.5708E-02	4.4060E+00	7.1730E+02	3.6285E+01	4.4582E+03
2.4500E-01	1.0399E-09	6.2715E-07	2.5707E-02	4.4058E+00	7.1728E+02	3.6239E+01	4.4476E+03
2.5000E-01	1.0384E-09	6.2716E-07	2.5706E-02	4.4057E+00	7.1726E+02	3.6193E+01	4.4376E+03
2.5500E-01	1.0369E-09	6.2718E-07	2.5705E-02	4.4056E+00	7.1724E+02	3.6148E+01	4.4280E+03
2.6000E-01	1.0355E-09	6.2719E-07	2.5705E-02	4.4055E+00	7.1723E+02	3.6103E+01	4.4188E+03
2.6500E-01	1.0343E-09	6.2720E-07	2.5704E-02	4.4055E+00	7.1722E+02	3.6058E+01	4.4101E+03
2.7000E-01	1.0330E-09	6.2722E-07	2.5704E-02	4.4055E+00	7.1722E+02	3.5970E+01	4.4017E+03
2.7500E-01	1.0319E-09	6.2724E-07	2.5703E-02	4.4055E+00	7.1722E+02	3.5926E+01	4.3937E+03
2.8000E-01	1.0307E-09	6.2725E-07	2.5703E-02	4.4056E+00	7.1722E+02	3.5883E+01	4.3861E+03
2.8500E-01	1.0298E-09	6.2727E-07	2.5703E-02	4.4056E+00	7.1723E+02	3.5843E+01	4.3789E+03
2.9000E-01	1.0291E-09	6.2729E-07	2.5704E-02	4.4056E+00	7.1723E+02	3.5805E+01	4.3719E+03
2.9500E-01	1.0285E-09	6.2731E-07	2.5704E-02	4.4056E+00	7.1724E+02	3.5769E+01	4.3653E+03
3.0000E-01	1.0279E-09	6.2733E-07	2.5704E-02	4.4057E+00	7.1725E+02	3.5734E+01	4.3589E+03
3.0500E-01	1.0275E-09	6.2735E-07	2.5704E-02	4.4058E+00	7.1725E+02	3.5695E+01	4.3529E+03
3.1000E-01	1.0270E-09	6.2737E-07	2.5704E-02	4.4058E+00	7.1727E+02	3.5664E+01	4.3471E+03
3.1500E-01	1.0240E-09	6.2737E-07	2.5704E-02	4.4059E+00	7.1727E+02	3.5634E+01	4.3416E+03
3.2000E-01	1.0237E-09	6.2740E-07	2.5705E-02	4.4060E+00	7.1730E+02	3.5605E+01	4.3362E+03
3.2500E-01	1.0224E-09	6.2742E-07	2.5706E-02	4.4061E+00	7.1732E+02	3.5576E+01	4.3312E+03
3.3000E-01	1.0217E-09	6.2744E-07	2.5706E-02	4.4062E+00	7.1733E+02	3.5547E+01	4.3264E+03
3.3500E-01	1.0210E-09	6.2746E-07	2.5707E-02	4.4063E+00	7.1735E+02	3.5518E+01	4.3217E+03
3.4000E-01	1.0204E-09	6.2748E-07	2.5707E-02	4.4064E+00	7.1738E+02	3.5495E+01	4.3173E+03
3.4500E-01	1.0198E-09	6.2750E-07	2.5708E-02	4.4065E+00	7.1738E+02	3.5473E+01	4.3131E+03
3.5000E-01	1.0192E-09	6.2752E-07	2.5709E-02	4.4066E+00	7.1740E+02	3.5452E+01	4.3091E+03
3.5500E-01	1.0186E-09	6.2754E-07	2.5709E-02	4.4067E+00	7.1742E+02	3.5432E+01	4.3052E+03
3.6000E-01	1.0180E-09	6.2756E-07	2.5710E-02	4.4068E+00	7.1744E+02	3.5413E+01	4.3015E+03
3.6500E-01	1.0175E-09	6.2758E-07	2.5711E-02	4.4069E+00	7.1746E+02	3.5395E+01	4.2980E+03
3.7000E-01	1.0170E-09	6.2760E-07	2.5711E-02	4.4070E+00	7.1748E+02	3.5379E+01	4.2947E+03
3.7500E-01	1.0165E-09	6.2762E-07	2.5712E-02	4.4072E+00	7.1749E+02	3.5372E+01	4.2915E+03
3.8000E-01	1.0161E-09	6.2763E-07	2.5713E-02	4.4073E+00	7.1752E+02	3.5377E+01	4.2884E+03
3.8500E-01	1.0157E-09	6.2765E-07	2.5713E-02	4.4075E+00	7.1754E+02	3.5322E+01	4.2855E+03
3.9000E-01	1.0153E-09	6.2767E-07	2.5714E-02	4.4076E+00	7.1756E+02	3.5308E+01	4.2827E+03
3.9500E-01	1.0149E-09	6.2768E-07	2.5715E-02	4.4078E+00	7.1758E+02	3.5295E+01	4.2800E+03
4.0000E-01	1.0145E-09	6.2770E-07	2.5716E-02	4.4079E+00	7.1760E+02	3.5283E+01	4.2775E+03
4.0500E-01	1.0141E-09	6.2772E-07	2.5716E-02	4.4080E+00	7.1762E+02	3.5272E+01	4.2751E+03
4.1000E-01	1.0138E-09	6.2773E-07	2.5717E-02	4.4081E+00	7.1763E+02	3.5250E+01	4.2728E+03
4.1500E-01	1.0135E-09	6.2775E-07	2.5718E-02	4.4082E+00	7.1765E+02	3.5240E+01	4.2705E+03
4.2000E-01	1.0132E-09	6.2777E-07	2.5718E-02	4.4084E+00	7.1767E+02	3.5231E+01	4.2685E+03
4.2500E-01	1.0129E-09	6.2778E-07	2.5719E-02	4.4085E+00	7.1770E+02	3.5222E+01	4.2665E+03
4.3000E-01	1.0126E-09	6.2780E-07	2.5720E-02	4.4086E+00	7.1772E+02	3.5213E+01	4.2646E+03
4.3500E-01	1.0123E-09	6.2781E-07	2.5720E-02	4.4087E+00	7.1774E+02	3.5205E+01	4.2628E+03
4.4000E-01	1.0121E-09	6.2783E-07	2.5721E-02	4.4088E+00	7.1775E+02	3.5188E+01	4.2611E+03
4.4500E-01	1.0118E-09	6.2784E-07	2.5722E-02	4.4089E+00	7.1776E+02	3.5181E+01	4.2595E+03
4.5000E-01	1.0116E-09	6.2786E-07	2.5722E-02	4.4090E+00	7.1778E+02	3.5174E+01	4.2580E+03
4.5500E-01	1.0114E-09	6.2787E-07	2.5723E-02	4.4091E+00	7.1780E+02	3.5168E+01	4.2565E+03
4.6000E-01	1.0112E-09	6.2789E-07	2.5724E-02	4.4092E+00	7.1782E+02	3.5163E+01	4.2551E+03
4.6500E-01	1.0110E-09	6.2790E-07	2.5724E-02	4.4093E+00	7.1784E+02	3.5157E+01	4.2538E+03
4.7000E-01	1.0108E-09	6.2791E-07	2.5725E-02	4.4095E+00	7.1786E+02	3.5152E+01	4.2526E+03
4.7500E-01	1.0107E-09	6.2792E-07	2.5725E-02	4.4096E+00	7.1787E+02	3.5139E+01	4.2514E+03
4.8000E-01	1.0105E-09	6.2794E-07	2.5725E-02	4.4096E+00	7.1788E+02	3.5135E+01	4.2503E+03
4.8500E-01	1.0104E-09	6.2796E-07	2.5726E-02	4.4096E+00	7.1790E+02	3.5131E+01	4.2492E+03
4.9000E-01	1.0102E-09	6.2798E-07	2.5727E-02	4.4098E+00	7.1792E+02	3.5128E+01	4.2483E+03
4.9500E-01	1.0101E-09	6.2799E-07	2.5728E-02	4.4099E+00	7.1793E+02	3.5125E+01	4.2473E+03
5.0000E-01	1.0099E-09	6.2798E-07	2.5728E-02	4.4100E+00	7.1795E+02	3.5122E+01	4.2464E+03

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	15 VARIABLE	16 VARIABLE	17 VARIABLE	18 VARIABLE	19 VARIABLE	20 VARIABLE	21 VARIABLE
1.0000E-05	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.630E-05	5.9000E-04	0.0000E+00	1.6940E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.8280E+02	2.1589E-10	3.3586E+03	2.7800E+01	1.7760E-02	1.5000E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.4000E+00	3.6500E-08	2.0000E+01	5.5611E-01	2.7000E+08	8.2600E+01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	8.0000E+01						
5.0000E-02	-1.8581E+00	8.0302E+01	2.0165E-05	1.0000E+01	-4.8029E-08	3.9195E-06	6.0295E-07
5.0000E-03	2.1417E+00	8.0298E+01	2.0165E-05	1.0000E+01	-3.4865E-06	3.9111E-06	-1.2979E-06
1.0000E-02	1.0376E+01	8.0390E+01	2.0161E-05	1.0000E+01	-3.3715E-06	3.8930E-06	-1.5095E-06
1.5000E-02	1.5702E+01	8.0396E+01	2.0159E-05	1.0000E+01	-2.0901E-06	3.8798E-06	-8.9150E-07
2.0000E-02	1.8177E+01	8.0482E+01	2.0157E-05	1.0000E+01	-1.0726E-06	3.8720E-06	-3.5334E-07
2.5000E-02	1.8796E+01	8.0575E+01	2.0154E-05	1.0000E+01	-4.5585E-07	3.8681E-06	-3.4640E-09
3.0000E-02	1.8399E+01	8.0688E+01	2.0155E-05	1.0000E+01	-1.2345E-07	3.8664E-06	2.0007E-07
3.5000E-02	1.7515E+01	8.0758E+01	2.0152E-05	1.0000E+01	-3.8603E-08	3.8660E-06	2.6600E-07
4.0000E-02	1.6438E+01	8.0843E+01	2.0159E-05	1.0000E+01	7.0738E-08	3.8663E-06	3.3933E-07
4.5000E-02	1.5531E+01	8.0937E+01	2.0164E-05	1.0000E+01	1.1448E-07	3.8668E-06	3.7098E-07
5.0000E-02	1.4633E+01	8.0937E+01	2.0164E-05	1.0000E+01	1.2571E-07	3.8674E-06	3.7944E-07
5.5000E-02	1.3261E+01	8.1085E+01	2.0167E-05	1.0000E+01	1.2110E-07	3.8681E-06	3.7568E-07
6.0000E-02	1.2344E+01	8.1129E+01	2.0171E-05	1.0000E+01	1.0987E-07	3.8686E-06	3.6623E-07
6.5000E-02	1.1483E+01	8.1199E+01	2.0176E-05	1.0000E+01	9.8904E-08	3.8691E-06	3.5503E-07
7.0000E-02	1.0703E+01	8.1244E+01	2.0180E-05	1.0000E+01	7.9878E-08	3.8696E-06	3.4172E-07
7.5000E-02	9.9867E+00	8.1296E+01	2.0185E-05	1.0000E+01	6.9451E-08	3.8700E-06	3.3203E-07
8.0000E-02	9.3289E+00	8.1344E+01	2.0180E-05	1.0000E+01	6.1207E-08	3.8703E-06	3.2634E-07
8.5000E-02	8.7236E+00	8.1389E+01	2.0196E-05	1.0000E+01	5.5371E-08	3.8706E-06	3.2258E-07
9.0000E-02	8.1656E+00	8.1432E+01	2.0201E-05	1.0000E+01	5.1871E-08	3.8709E-06	3.2156E-07
9.5000E-02	7.6501E+00	8.1471E+01	2.0207E-05	1.0000E+01	5.0478E-08	3.8711E-06	3.2314E-07
1.0000E-01	7.1733E+00	8.1508E+01	2.0213E-05	1.0000E+01	5.0883E-08	3.8713E-06	3.2704E-07
1.0500E-01	6.7305E+00	8.1543E+01	2.0224E-05	1.0000E+01	4.8624E-08	3.8716E-06	3.2906E-07
1.1000E-01	6.3190E+00	8.1575E+01	2.0228E-05	1.0000E+01	4.8232E-08	3.8718E-06	3.3657E-07
1.1500E-01	5.9385E+00	8.1606E+01	2.0232E-05	1.0000E+01	5.2384E-08	3.8721E-06	3.4545E-07
1.2000E-01	5.5906E+00	8.1635E+01	2.0238E-05	1.0000E+01	5.6930E-08	3.8724E-06	3.5539E-07
1.2500E-01	5.2491E+00	8.1682E+01	2.0244E-05	1.0000E+01	6.1819E-08	3.8727E-06	3.6608E-07
1.3000E-01	4.9401E+00	8.1687E+01	2.0251E-05	1.0000E+01	6.7145E-08	3.8730E-06	3.7727E-07
1.3500E-01	4.6517E+00	8.1711E+01	2.0257E-05	1.0000E+01	7.2425E-08	3.8733E-06	3.8873E-07
1.4000E-01	4.3814E+00	8.1734E+01	2.0263E-05	1.0000E+01	7.7370E-08	3.8737E-06	3.9885E-07
1.4500E-01	4.1285E+00	8.1755E+01	2.0270E-05	1.0000E+01	8.1795E-08	3.8740E-06	4.0846E-07
1.5000E-01	3.8919E+00	8.1755E+01	2.0275E-05	1.0000E+01	8.6495E-08	3.8744E-06	4.1986E-07
1.5500E-01	3.6703E+00	8.1744E+01	2.0282E-05	1.0000E+01	9.0851E-08	3.8749E-06	4.3094E-07
1.6000E-01	3.4827E+00	8.1829E+01	2.0288E-05	1.0000E+01	9.4792E-08	3.8753E-06	4.4163E-07
1.6500E-01	3.2678E+00	8.1845E+01	2.0294E-05	1.0000E+01	9.8103E-08	3.8758E-06	4.5186E-07
1.7000E-01	3.0448E+00	8.1860E+01	2.0300E-05	1.0000E+01	9.4708E-08	3.8762E-06	4.5931E-07
1.7500E-01	2.8121E+00	8.1874E+01	2.0312E-05	1.0000E+01	1.0046E-07	3.8767E-06	4.6867E-07
1.8000E-01	2.5968E+00	8.1887E+01	2.0317E-05	1.0000E+01	1.0297E-07	3.8772E-06	4.7748E-07
1.8500E-01	2.4527E+00	8.1900E+01	2.0323E-05	1.0000E+01	1.0504E-07	3.8782E-06	4.8574E-07
1.9000E-01	2.3169E+00	8.1912E+01	2.0329E-05	1.0000E+01	1.0669E-07	3.8788E-06	4.9344E-07
2.0000E-01	2.1866E+00	8.1923E+01	2.0334E-05	1.0000E+01	1.0795E-07	3.8793E-06	5.0723E-07
2.0500E-01	2.0673E+00	8.1934E+01	2.0340E-05	1.0000E+01	1.0675E-07	3.8788E-06	5.1222E-07
2.1000E-01	1.9523E+00	8.1944E+01	2.0345E-05	1.0000E+01	1.0753E-07	3.8804E-06	5.1798E-07
2.1500E-01	1.8436E+00	8.1953E+01	2.0350E-05	1.0000E+01	1.0798E-07	3.8809E-06	5.2375E-07
2.2000E-01	1.7406E+00	8.1962E+01	2.0355E-05	1.0000E+01	1.0811E-07	3.8815E-06	5.2812E-07
2.2500E-01	1.6431E+00	8.1971E+01	2.0360E-05	1.0000E+01	1.0796E-07	3.8820E-06	5.3256E-07
2.3000E-01	1.5506E+00	8.1979E+01	2.0365E-05	1.0000E+01	1.0755E-07	3.8825E-06	5.3660E-07

2.3500E-01	1.4628E+00	8.1986E+01	2.0370E-05	1.0000E+01	1.0690E-07	3.8831E-08	5.4029E-07
2.4000E-01	1.3794E+00	8.1993E+01	2.0374E-05	1.0000E+01	1.0531E-07	3.8836E-08	5.4324E-07
2.4500E-01	1.3001E+00	8.2000E+01	2.0379E-05	1.0000E+01	1.0441E-07	3.8841E-08	5.4644E-07
2.5000E-01	1.2248E+00	8.2006E+01	2.0383E-05	1.0000E+01	1.0332E-07	3.8847E-08	5.4916E-07
2.5500E-01	1.1532E+00	8.2012E+01	2.0388E-05	1.0000E+01	1.0208E-07	3.8852E-08	5.5170E-07
2.6000E-01	1.0851E+00	8.2018E+01	2.0392E-05	1.0000E+01	1.0069E-07	3.8857E-08	5.5399E-07
2.6500E-01	1.0203E+00	8.2023E+01	2.0396E-05	1.0000E+01	9.9182E-08	3.8862E-08	5.5606E-07
2.7000E-01	9.5858E-01	8.2028E+01	2.0400E-05	1.0000E+01	9.7568E-08	3.8867E-08	5.5791E-07
2.7500E-01	8.9982E-01	8.2033E+01	2.0404E-05	1.0000E+01	9.5876E-08	3.8872E-08	5.5958E-07
2.8000E-01	8.4387E-01	8.2037E+01	2.0408E-05	1.0000E+01	9.4169E-08	3.8877E-08	5.6110E-07
2.8500E-01	7.9056E-01	8.2041E+01	2.0411E-05	1.0000E+01	9.2455E-08	3.8881E-08	5.6245E-07
2.9000E-01	7.3980E-01	8.2045E+01	2.0415E-05	1.0000E+01	9.0733E-08	3.8885E-08	5.6366E-07
2.9500E-01	6.9140E-01	8.2048E+01	2.0419E-05	1.0000E+01	8.8677E-08	3.8890E-08	5.6473E-07
3.0000E-01	6.4527E-01	8.2052E+01	2.0422E-05	1.0000E+01	8.6742E-08	3.8894E-08	5.6567E-07
3.0500E-01	6.0129E-01	8.2055E+01	2.0425E-05	1.0000E+01	8.4959E-08	3.8899E-08	5.6658E-07
3.1000E-01	5.5942E-01	8.2058E+01	2.0428E-05	1.0000E+01	8.3185E-08	3.8903E-08	5.6742E-07
3.1500E-01	5.1951E-01	8.2062E+01	2.0431E-05	1.0000E+01	8.1230E-08	3.8907E-08	5.6806E-07
3.2000E-01	4.8145E-01	8.2065E+01	2.0432E-05	1.0000E+01	7.9264E-08	3.8911E-08	5.6862E-07
3.2500E-01	4.4517E-01	8.2068E+01	2.0433E-05	1.0000E+01	7.7292E-08	3.8915E-08	5.6910E-07
3.3000E-01	4.1057E-01	8.2071E+01	2.0434E-05	1.0000E+01	7.5319E-08	3.8919E-08	5.6950E-07
3.3500E-01	3.7752E-01	8.2074E+01	2.0435E-05	1.0000E+01	7.3352E-08	3.8922E-08	5.6984E-07
3.4000E-01	3.4615E-01	8.2077E+01	2.0436E-05	1.0000E+01	7.1390E-08	3.8925E-08	5.7016E-07
3.4500E-01	3.1625E-01	8.2079E+01	2.0437E-05	1.0000E+01	6.9471E-08	3.8928E-08	5.7044E-07
3.5000E-01	2.8775E-01	8.2081E+01	2.0438E-05	1.0000E+01	6.7597E-08	3.8931E-08	5.7069E-07
3.5500E-01	2.6059E-01	8.2083E+01	2.0439E-05	1.0000E+01	6.5768E-08	3.8934E-08	5.7091E-07
3.6000E-01	2.3471E-01	8.2085E+01	2.0440E-05	1.0000E+01	6.4280E-08	3.8936E-08	5.7106E-07
3.6500E-01	2.1005E-01	8.2087E+01	2.0441E-05	1.0000E+01	6.2424E-08	3.8938E-08	5.7106E-07
3.7000E-01	1.8655E-01	8.2089E+01	2.0442E-05	1.0000E+01	6.0522E-08	3.8940E-08	5.7106E-07
3.7500E-01	1.6423E-01	8.2091E+01	2.0443E-05	1.0000E+01	5.9345E-08	3.8942E-08	5.7106E-07
3.8000E-01	1.4302E-01	8.2093E+01	2.0444E-05	1.0000E+01	5.7572E-08	3.8943E-08	5.7106E-07
3.8500E-01	1.2283E-01	8.2095E+01	2.0445E-05	1.0000E+01	5.5878E-08	3.8945E-08	5.7106E-07
3.9000E-01	1.0362E-01	8.2097E+01	2.0446E-05	1.0000E+01	5.4112E-08	3.8946E-08	5.7106E-07
3.9500E-01	8.5343E-02	8.2099E+01	2.0447E-05	1.0000E+01	5.2426E-08	3.8948E-08	5.7106E-07
4.0000E-01	6.7980E-02	8.2101E+01	2.0448E-05	1.0000E+01	5.0722E-08	3.8949E-08	5.7106E-07
4.0500E-01	5.1432E-02	8.2103E+01	2.0449E-05	1.0000E+01	4.9149E-08	3.8950E-08	5.7106E-07
4.1000E-01	3.5817E-02	8.2105E+01	2.0450E-05	1.0000E+01	4.7572E-08	3.8951E-08	5.7106E-07
4.1500E-01	2.0999E-02	8.2107E+01	2.0451E-05	1.0000E+01	4.6047E-08	3.8952E-08	5.7106E-07
4.2000E-01	6.9324E-03	8.2109E+01	2.0452E-05	1.0000E+01	4.4572E-08	3.8953E-08	5.7106E-07
4.2500E-01	-6.4141E-03	8.2111E+01	2.0453E-05	1.0000E+01	4.3147E-08	3.8954E-08	5.7106E-07
4.3000E-01	-1.9071E-02	8.2113E+01	2.0454E-05	1.0000E+01	4.1772E-08	3.8955E-08	5.7106E-07
4.3500E-01	-3.1067E-02	8.2115E+01	2.0455E-05	1.0000E+01	4.0447E-08	3.8956E-08	5.7106E-07
4.4000E-01	-4.2417E-02	8.2117E+01	2.0456E-05	1.0000E+01	3.9172E-08	3.8957E-08	5.7106E-07
4.4500E-01	-5.3076E-02	8.2119E+01	2.0457E-05	1.0000E+01	3.7947E-08	3.8958E-08	5.7106E-07
4.5000E-01	-6.3155E-02	8.2121E+01	2.0458E-05	1.0000E+01	3.6772E-08	3.8959E-08	5.7106E-07
4.5500E-01	-7.2679E-02	8.2123E+01	2.0459E-05	1.0000E+01	3.5647E-08	3.8960E-08	5.7106E-07
4.6000E-01	-8.1669E-02	8.2125E+01	2.0460E-05	1.0000E+01	3.4572E-08	3.8961E-08	5.7106E-07
4.6500E-01	-9.0148E-02	8.2127E+01	2.0461E-05	1.0000E+01	3.3547E-08	3.8962E-08	5.7106E-07
4.7000E-01	-9.8138E-02	8.2129E+01	2.0462E-05	1.0000E+01	3.2572E-08	3.8963E-08	5.7106E-07
4.7500E-01	-1.0563E-01	8.2131E+01	2.0463E-05	1.0000E+01	3.1647E-08	3.8964E-08	5.7106E-07
4.8000E-01	-1.1261E-01	8.2133E+01	2.0464E-05	1.0000E+01	3.0772E-08	3.8965E-08	5.7106E-07
4.8500E-01	-1.1917E-01	8.2135E+01	2.0465E-05	1.0000E+01	2.9947E-08	3.8966E-08	5.7106E-07
4.9000E-01	-1.2531E-01	8.2137E+01	2.0466E-05	1.0000E+01	2.9172E-08	3.8967E-08	5.7106E-07
4.9500E-01	-1.3106E-01	8.2139E+01	2.0467E-05	1.0000E+01	2.8447E-08	3.8968E-08	5.7106E-07
5.0000E-01	-1.3643E-01	8.2141E+01	2.0468E-05	1.0000E+01	2.7772E-08	3.8969E-08	5.7106E-07



ITERATIVE METHOD, TIME RESPONSE

COEFFICIENTS VALUES.

TIME	22 VARIABLE	23 VARIABLE	24 VARIABLE	25 VARIABLE	26 VARIABLE	27 VARIABLE	28 VARIABLE
1.0000E+00	7.4254E+05	9.0500E+01	6.0500E+01	1.0000E+00	0.0000E+00	5.0000E+00	3.1000E+02
1.930E-03	5.900E-04	0.0000E+00	1.6940E+03	1.0490E+06	2.5600E+01	7.4400E+01	1.7140E+00
1.8280E+02	2.158E-10	3.3586E+03	2.7800E+01	1.7760E-02	2.5500E-10	8.3283E-09	1.8500E-06
7.4000E+00	2.400E+00	3.6500E-06	2.0000E+01	5.5611E-01	1.7000E+08	8.2600E+01	5.6000E+01
4.3290E-01	4.7700E-01	2.3400E-01	6.4300E-02	3.2250E-07	5.2080E-08	1.2215E+01	7.2259E+00
0.0000E+00	8.0000E+01						
1.0000E+00	1.2481E+00	6.9929E+01	1.3272E+02	6.8527E+02	1.7800E+03	1.1315E+00	7.0762E+02
5.0000E-03	5.2421E-01	6.8836E+01	1.3273E+02	6.8530E+02	1.7800E+03	1.2018E+00	7.3766E+02
1.0000E-02	-7.4725E-01	-1.9500E+01	1.3280E+02	6.8489E+02	1.7800E+03	1.3535E+00	7.3952E+02
1.5000E-02	-1.2857E+00	-6.7926E+01	1.3232E+02	6.8403E+02	1.7800E+03	1.4654E+00	7.3047E+02
2.0000E-02	-1.2820E+00	-7.3494E+01	1.3199E+02	6.8306E+02	1.7800E+03	1.5333E+00	7.2257E+02
3.0000E-02	-9.6049E-01	-5.6957E+01	1.3168E+02	6.8222E+02	1.7800E+03	1.5702E+00	7.1741E+02
3.5000E-02	-5.7761E-01	-3.3736E+01	1.3141E+02	6.8160E+02	1.7800E+03	1.5824E+00	7.1436E+02
3.5000E-02	-2.1601E-01	-2.2308E+01	1.3119E+02	6.8122E+02	1.7800E+03	1.5954E+00	7.1306E+02
4.0000E-02	8.3148E-02	1.3152E+00	1.3102E+02	6.8105E+02	1.7800E+03	1.5965E+00	7.1206E+02
4.5000E-02	3.0848E-01	3.0775E+01	1.3086E+02	6.8102E+02	1.7800E+03	1.5944E+00	7.1140E+02
5.0000E-02	6.1740E-01	2.3991E+01	1.3077E+02	6.8102E+02	1.7800E+03	1.5904E+00	7.1107E+02
5.0000E-02	5.7237E-01	3.1087E+01	1.3069E+02	6.8102E+02	1.7800E+03	1.5852E+00	7.1091E+02
6.0000E-02	8.3641E-01	3.5269E+01	1.3061E+02	6.8102E+02	1.7800E+03	1.5784E+00	7.1078E+02
7.0000E-02	8.7118E-01	3.7530E+01	1.3055E+02	6.8102E+02	1.7800E+03	1.5731E+00	7.1078E+02
7.5000E-02	8.8311E-01	3.8117E+01	1.3048E+02	6.8105E+02	1.7800E+03	1.5685E+00	7.1077E+02
8.0000E-02	8.8935E-01	3.8590E+01	1.3042E+02	6.8105E+02	1.7800E+03	1.5597E+00	7.1071E+02
8.0000E-02	8.878E-01	3.8490E+01	1.3038E+02	6.8105E+02	1.7800E+03	1.5526E+00	7.1062E+02
9.0000E-02	8.7359E-01	3.7767E+01	1.3024E+02	6.8105E+02	1.7800E+03	1.5454E+00	7.1051E+02
9.5000E-02	8.6946E-01	3.7499E+01	1.3018E+02	6.8105E+02	1.7800E+03	1.5382E+00	7.1038E+02
1.0000E-01	8.6823E-01	3.7418E+01	1.3011E+02	6.8105E+02	1.7800E+03	1.5308E+00	7.1022E+02
1.0500E-01	8.7055E-01	3.7720E+01	1.3005E+02	6.8105E+02	1.7800E+03	1.5234E+00	7.1004E+02
1.1000E-01	8.6575E-01	3.8206E+01	1.2999E+02	6.8105E+02	1.7800E+03	1.5160E+00	7.0990E+02
1.1500E-01	8.9805E-01	3.6206E+01	1.2993E+02	6.8105E+02	1.7800E+03	1.5088E+00	7.0970E+02
1.2000E-01	7.1297E-01	3.9774E+01	1.2987E+02	6.8105E+02	1.7800E+03	1.5013E+00	7.0949E+02
1.2500E-01	7.3006E-01	4.0797E+01	1.2975E+02	6.8105E+02	1.7800E+03	1.4940E+00	7.0928E+02
1.3000E-01	7.4886E-01	4.1936E+01	1.2970E+02	6.8105E+02	1.7800E+03	1.4867E+00	7.0906E+02
1.3500E-01	7.6914E-01	4.2540E+01	1.2965E+02	6.8105E+02	1.7800E+03	1.4795E+00	7.0885E+02
1.4000E-01	7.9031E-01	4.3796E+01	1.2960E+02	6.8105E+02	1.7800E+03	1.4725E+00	7.0864E+02
1.4500E-01	8.1195E-01	4.5095E+01	1.2955E+02	6.8105E+02	1.7800E+03	1.4655E+00	7.0849E+02
1.5000E-01	8.3376E-01	4.6413E+01	1.2951E+02	6.8105E+02	1.7800E+03	1.4586E+00	7.0830E+02
1.5500E-01	8.5545E-01	4.7729E+01	1.2947E+02	6.8105E+02	1.7800E+03	1.4518E+00	7.0811E+02
1.6000E-01	8.7680E-01	4.9022E+01	1.2944E+02	6.8105E+02	1.7800E+03	1.4452E+00	7.0793E+02
1.6500E-01	8.9784E-01	5.0240E+01	1.2940E+02	6.8105E+02	1.7800E+03	1.4387E+00	7.0777E+02
1.7000E-01	9.1792E-01	5.0907E+01	1.2937E+02	6.8105E+02	1.7800E+03	1.4324E+00	7.0762E+02
1.7500E-01	9.3740E-01	5.2103E+01	1.2934E+02	6.8105E+02	1.7800E+03	1.4262E+00	7.0751E+02
1.8000E-01	9.5599E-01	5.3244E+01	1.2932E+02	6.8105E+02	1.7800E+03	1.4201E+00	7.0738E+02
1.8500E-01	9.7364E-01	5.4328E+01	1.2930E+02	6.8105E+02	1.7800E+03	1.4142E+00	7.0726E+02
1.9000E-01	9.9031E-01	5.5345E+01	1.2927E+02	6.8105E+02	1.7800E+03	1.4084E+00	7.0714E+02
2.0000E-01	1.0060E+00	5.6300E+01	1.2926E+02	6.8105E+02	1.7800E+03	1.4027E+00	7.0704E+02
2.0500E-01	1.0207E+00	5.6754E+01	1.2924E+02	6.8105E+02	1.7800E+03	1.3972E+00	7.0695E+02
2.1000E-01	1.0345E+00	5.7813E+01	1.2923E+02	6.8105E+02	1.7800E+03	1.3919E+00	7.0687E+02
2.1500E-01	1.0473E+00	5.8410E+01	1.2921E+02	6.8105E+02	1.7800E+03	1.3867E+00	7.0682E+02
2.2000E-01	1.0592E+00	5.9146E+01	1.2920E+02	6.8105E+02	1.7800E+03	1.3816E+00	7.0675E+02
2.2500E-01	1.0702E+00	5.9824E+01	1.2919E+02	6.8105E+02	1.7800E+03	1.3767E+00	7.0669E+02
2.3000E-01	1.0804E+00	6.0446E+01	1.2918E+02	6.8105E+02	1.7800E+03	1.3719E+00	7.0664E+02
						1.3673E+00	7.0660E+02
						1.3628E+00	7.0656E+02

2.3500E-01	1.0698E+00	6.1016E+01	1.2918E+02	6.8099E+02	1.7800E+03	1.3584E+00	7.0653E+02
2.4000E-01	1.0984E+00	6.1282E+01	1.2917E+02	6.8102E+02	1.7800E+03	1.3541E+00	7.0651E+02
2.4500E-01	1.1063E+00	6.1779E+01	1.2917E+02	6.8105E+02	1.7800E+03	1.3500E+00	7.0649E+02
2.5000E-01	1.1135E+00	6.2231E+01	1.2917E+02	6.8108E+02	1.7800E+03	1.3460E+00	7.0647E+02
2.5500E-01	1.1202E+00	6.2642E+01	1.2916E+02	6.8113E+02	1.7800E+03	1.3429E+00	7.0646E+02
2.6000E-01	1.1263E+00	6.3014E+01	1.2916E+02	6.8117E+02	1.7800E+03	1.3384E+00	7.0645E+02
2.6500E-01	1.1317E+00	6.3350E+01	1.2916E+02	6.8121E+02	1.7800E+03	1.3348E+00	7.0644E+02
2.7000E-01	1.1367E+00	6.3654E+01	1.2916E+02	6.8125E+02	1.7800E+03	1.3315E+00	7.0644E+02
2.7500E-01	1.1412E+00	6.3948E+01	1.2916E+02	6.8129E+02	1.7800E+03	1.3275E+00	7.0644E+02
2.8000E-01	1.1453E+00	6.4053E+01	1.2916E+02	6.8134E+02	1.7800E+03	1.3246E+00	7.0644E+02
2.8500E-01	1.1490E+00	6.4266E+01	1.2917E+02	6.8138E+02	1.7800E+03	1.3212E+00	7.0644E+02
2.8500E-01	1.1554E+00	6.4484E+01	1.2917E+02	6.8142E+02	1.7800E+03	1.3183E+00	7.0645E+02
3.0000E-01	1.1581E+00	6.4680E+01	1.2917E+02	6.8147E+02	1.7800E+03	1.3154E+00	7.0646E+02
3.0500E-01	1.1606E+00	6.4848E+01	1.2918E+02	6.8151E+02	1.7800E+03	1.3125E+00	7.0647E+02
3.1000E-01	1.1627E+00	6.4972E+01	1.2918E+02	6.8156E+02	1.7800E+03	1.3097E+00	7.0648E+02
3.1500E-01	1.1646E+00	6.5061E+01	1.2919E+02	6.8160E+02	1.7800E+03	1.3070E+00	7.0649E+02
3.2000E-01	1.1664E+00	6.5183E+01	1.2919E+02	6.8165E+02	1.7800E+03	1.3045E+00	7.0650E+02
3.2500E-01	1.1682E+00	6.5291E+01	1.2919E+02	6.8169E+02	1.7800E+03	1.3020E+00	7.0651E+02
3.3000E-01	1.1697E+00	6.5388E+01	1.2920E+02	6.8174E+02	1.7800E+03	1.2996E+00	7.0653E+02
3.3500E-01	1.1709E+00	6.5468E+01	1.2920E+02	6.8178E+02	1.7800E+03	1.2972E+00	7.0654E+02
3.4000E-01	1.1714E+00	6.5539E+01	1.2921E+02	6.8182E+02	1.7800E+03	1.2950E+00	7.0656E+02
3.4500E-01	1.1723E+00	6.5571E+01	1.2921E+02	6.8187E+02	1.7800E+03	1.2928E+00	7.0657E+02
3.5000E-01	1.1730E+00	6.5628E+01	1.2922E+02	6.8191E+02	1.7800E+03	1.2907E+00	7.0659E+02
3.5500E-01	1.1736E+00	6.5715E+01	1.2923E+02	6.8195E+02	1.7800E+03	1.2887E+00	7.0661E+02
3.6000E-01	1.1741E+00	6.5748E+01	1.2923E+02	6.8199E+02	1.7800E+03	1.2868E+00	7.0663E+02
3.6500E-01	1.1746E+00	6.5774E+01	1.2924E+02	6.8203E+02	1.7800E+03	1.2849E+00	7.0664E+02
3.7000E-01	1.1749E+00	6.5794E+01	1.2924E+02	6.8207E+02	1.7800E+03	1.2831E+00	7.0665E+02
3.7500E-01	1.1751E+00	6.5807E+01	1.2925E+02	6.8211E+02	1.7800E+03	1.2814E+00	7.0666E+02
3.8000E-01	1.1753E+00	6.5814E+01	1.2925E+02	6.8214E+02	1.7800E+03	1.2797E+00	7.0668E+02
3.8500E-01	1.1754E+00	6.5814E+01	1.2925E+02	6.8218E+02	1.7800E+03	1.2781E+00	7.0669E+02
3.9000E-01	1.1754E+00	6.5822E+01	1.2925E+02	6.8222E+02	1.7800E+03	1.2765E+00	7.0671E+02
3.9500E-01	1.1754E+00	6.5825E+01	1.2927E+02	6.8225E+02	1.7800E+03	1.2748E+00	7.0673E+02
4.0000E-01	1.1754E+00	6.5825E+01	1.2927E+02	6.8228E+02	1.7800E+03	1.2731E+00	7.0675E+02
4.0500E-01	1.1753E+00	6.5825E+01	1.2928E+02	6.8232E+02	1.7800E+03	1.2713E+00	7.0677E+02
4.1000E-01	1.1752E+00	6.5813E+01	1.2928E+02	6.8235E+02	1.7800E+03	1.2695E+00	7.0679E+02
4.1500E-01	1.1749E+00	6.5797E+01	1.2929E+02	6.8238E+02	1.7800E+03	1.2677E+00	7.0680E+02
4.2000E-01	1.1746E+00	6.5783E+01	1.2929E+02	6.8241E+02	1.7800E+03	1.2659E+00	7.0682E+02
4.2500E-01	1.1743E+00	6.5767E+01	1.2930E+02	6.8244E+02	1.7800E+03	1.2642E+00	7.0684E+02
4.3000E-01	1.1740E+00	6.5749E+01	1.2931E+02	6.8247E+02	1.7800E+03	1.2625E+00	7.0687E+02
4.3500E-01	1.1737E+00	6.5729E+01	1.2932E+02	6.8250E+02	1.7800E+03	1.2608E+00	7.0689E+02
4.4000E-01	1.1734E+00	6.5718E+01	1.2932E+02	6.8253E+02	1.7800E+03	1.2591E+00	7.0692E+02
4.4500E-01	1.1730E+00	6.5696E+01	1.2933E+02	6.8256E+02	1.7800E+03	1.2574E+00	7.0693E+02
4.5000E-01	1.1726E+00	6.5673E+01	1.2933E+02	6.8258E+02	1.7800E+03	1.2557E+00	7.0695E+02
4.5500E-01	1.1721E+00	6.5648E+01	1.2934E+02	6.8261E+02	1.7800E+03	1.2540E+00	7.0697E+02
4.6000E-01	1.1717E+00	6.5622E+01	1.2934E+02	6.8263E+02	1.7800E+03	1.2523E+00	7.0698E+02
4.6500E-01	1.1713E+00	6.5595E+01	1.2935E+02	6.8266E+02	1.7800E+03	1.2506E+00	7.0700E+02
4.7000E-01	1.1708E+00	6.5567E+01	1.2935E+02	6.8268E+02	1.7800E+03	1.2489E+00	7.0701E+02
4.7500E-01	1.1704E+00	6.5533E+01	1.2936E+02	6.8271E+02	1.7800E+03	1.2472E+00	7.0702E+02
4.8000E-01	1.1699E+00	6.5503E+01	1.2936E+02	6.8273E+02	1.7800E+03	1.2455E+00	7.0704E+02
4.8500E-01	1.1694E+00	6.5475E+01	1.2936E+02	6.8275E+02	1.7800E+03	1.2438E+00	7.0705E+02
4.9000E-01	1.1689E+00	6.5446E+01	1.2937E+02	6.8277E+02	1.7800E+03	1.2421E+00	7.0707E+02
4.9500E-01	1.1684E+00	6.5416E+01	1.2937E+02	6.8279E+02	1.7800E+03	1.2404E+00	7.0708E+02
5.0000E-01	1.1679E+00	6.5386E+01	1.2938E+02	6.8281E+02	1.7800E+03	1.2387E+00	7.0709E+02
		6.5406E+01	1.2938E+02	6.8283E+02	1.7800E+03	1.2370E+00	7.0709E+02

```
1 REM Appendix #42.
2 REM
5 REM LOCUS
100 REM ROOT LOCUS PROGRAM - LOCUS* LIST LOCUI* FOR INSTRUCTIONS
101 OPEN "LOCO.DAT" FOR OUTPUT AS FILE #1
110 DIM X(2)
120 DIM G(50),H(50),C(50),M(2)
130 M(0)=1
140 M(1)=2
150 M(2)=5
155 REM Z IS FLAG FOR SUBR TO ASK FOR NUMORATOR OR DENOMINATOR
160 Z=0
170 GOSUB 1850
171 PRINT
172 PRINT
173 PRINT#1,"ROOT LOCUS PROGRAM."
174 PRINT"NUMERATOR OF GH";
175 PRINT#1,
176 PRINT#1,"NUMERATOR OF GH"
178 GOSUB 2180
180 N1=N0
190 FOR I=0 TO N1
200 G(I)=C(I)
210 NEXT I
220 PRINT"OPEN LOOP ZEROS"
221 PRINT#1,"OPEN LOOP ZEROS"
230 GOSUB 600
240 PRINT
241 PRINT#1,
250 Z=1
260 GOSUB 1850
261 PRINT
262 PRINT
264 PRINT"DENOMINATOR OF GH";
265 PRINT#1,
266 PRINT#1,
267 PRINT#1,"DENOMINATOR OF GH"
268 GOSUB 2180
270 N2=N0
280 FOR I=0 TO N2
290 H(I)=C(I)
300 NEXT I
310 PRINT"OPEN LOOP POLES"
311 PRINT#1,"OPEN LOOP POLES"
320 GOSUB 600
330 IF N1<=N2 THEN 350
340 N0=N1
350 INPUT "ENTER GAIN RANGE - MIN,MAX ";K0,K9
360 K9=.75*K9
370 FOR D=0 TO 2
380 K=K0*M(D)
390 GOSUB 480
400 IF K>=K9 THEN 440
410 NEXT D
420 K0=10*K0
430 GOTO 370
440 PRINT
441 PRINT#1
444 PRINT "WISH TO CONTINUE (N OR Y)";
```

```
446 INPUT CS
447 IF CS="N" THEN 9999
448 PRINT
450 PRINT"ENTER NEW INITIAL AND FINAL GAINS ";
451 PRINT#1,
460 INPUT K0,K9
470 GOTO 360
480 FOR I=0 TO N0
490 S=0
500 IF I>N1 THEN 520
510 S=S+K*G(I)
520 IF I>N2 THEN 540
530 S=S+H(I)
540 C(I)=S
550 NEXT I
560 PRINT
570 PRINT"CLOSED LOOP POLES FOR K =" ;K
571 PRINT#1,
572 PRINT#1,"CLOSED LOOP POLES FOR K =" ;K
580 REM ROOT FINDER.
590 DIM B(50),D(50)
600 N=N0
610 L1=-1
620 IF C(N)<>0 THEN 650
630 N=N-1
640 IF N>0 THEN 620
650 IF N>0 THEN 680
660 PRINT"DEGREE IS ZERO, NO ROOTS"
661 PRINT#1,"DEGREE IS ZERO, NO ROOTS"
670 RETURN
680 IF C(0)<>0 THEN 760
690 PRINT 0
691 PRINT#1, 0
700 N=N-1
710 FOR I=0 TO N
720 C(I)=C(I+1)
730 NEXT I
740 IF N>0 THEN 680
750 IF N<=0 THEN 1840
760 IF N>1 THEN 790
770 R=-C(1)/C(0)
780 GOTO 1550
790 IF N>2 THEN 830
800 P=C(1)/C(0)
810 Q=C(2)/C(0)
820 GOTO 1630
830 P1=0
840 P2=0
850 Q1=0
860 Q2=0
870 X=1E-7
880 S=SQR(ABS(C(0)*C(N)))
890 FOR I=0 TO N
900 C(I)=C(I)/S
910 NEXT I
920 IF ABS(C(1)/C(0))>=ABS(C(N-1)/C(N)) THEN 1000
930 L1=-L1
940 FOR I=0 TO (N-1)/2+.1
950 J=N-I
960 T=C(I)
```

```
970 C(I)=C(J)
980 C(J)=T
990 NEXT I
1000 IF Q1=0 THEN 1040
1010 P=P1
1020 Q=Q1
1030 GOTO 1120
1040 P=C(N-2)
1050 IF P<>0 THEN 1090
1060 Q=1
1070 P=-2
1080 GOTO 1110
1090 Q=C(N-1)/P
1100 P=Q-C(N-3)*Q/P
1110 R=0
1120 FOR L2=1 TO 20
1130 B(0)=C(0)
1140 C1=B(0)
1150 D(0)=C(0)
1160 B(1)=C(1)-B(0)*P
1170 C2=B(1)-C1*P
1180 D(1)=C(1)+R*D(0)
1190 E1=D(1)+R*D(0)
1200 FOR I=2 TO N-1
1210 B(I)=C(I)-B(I-1)*P-B(I-2)*Q
1220 C0=C1
1230 C1=C2
1240 C2=B(I)-C1*P-C0*Q
1250 D(I)=C(I)+R*D(I-1)
1260 E0=E1
1270 E1=D(I)+R*E0
1280 NEXT I
1290 T1=C(N)-P*B(N-1)-Q*B(N-2)
1300 C2=-P*C1-Q*C0
1310 T=C1*C1-C2*C0
1320 P3=B(N-1)*C1-T1*C0
1330 Q3=T1*C1-B(N-1)*C2
1340 IF ABS(P3)>X*ABS(P*T) THEN 1360
1350 IF ABS(Q3)<=X*ABS(Q*T) THEN 1630
1360 IF T<>0 THEN 1400
1370 P=P-2
1380 Q=Q*(Q+1)
1390 GOTO 1420
1400 P=P+P3/T
1410 Q=Q+Q3/T
1420 T=C(N)+R*D(N-1)
1430 IF ABS(T)<=X*ABS(R*E1) THEN 1550
1440 IF E1<>0 THEN 1470
1450 R=R-1
1460 GOTO 1480
1470 R=R-T/E1
1480 NEXT L2
1490 P1=P2
1500 Q1=Q2
1510 P2=P
1520 Q2=Q
1530 X=10*X
1540 GOTO 930
1550 IF L1>0 THEN 1570
1560 R=1/R
```

```

1570 PRINT R
1571 PRINT#1, R
1580 N=N-1
1590 FOR I=0 TO N
1600 C(I)=D(I)
1610 NEXT I
1620 GOTO 750
1630 IF L1>0 THEN 1660
1640 P=P/Q
1650 Q=1/Q
1660 T=P*P/4-Q
1670 IF T>=0 THEN 1740
1680 T1=-P/2
1690 T=SQR(-T)
1700 S=SQR(ABS(Q))
1710 PRINT T1;" + J";T;" DAMPING FACTOR =" ; -T1/S
1720 PRINT T1;" - J";T;" NATURAL FREQ. =" ; S
1721 PRINT#1, T1;" + J";T;" DAMPING FACTOR =" ; -T1/S
1722 PRINT#1, T1;" - J";T;" NATURAL FREQ. =" ; S
1730 GOTO 1790
1740 T=SQR(T)+ABS(P)/2
1750 IF P<0 THEN 1770
1760 T=-T
1770 PRINT Q/T
1780 PRINT T
1781 PRINT#1, Q/T
1782 PRINT#1, T
1790 N=N-2
1800 FOR I=0 TO N
1810 C(I)=B(I)
1820 NEXT I
1830 GOTO 750
1840 RETURN
1850 N0=0
1860 C(0)=1
1864 IF Z>0 THEN GOTO 1878
1870 INPUT "NUMBER OF TERMS IN NUMERATOR ";M
1875 GOTO 1880
1878 INPUT "NUMBER OF TERMS IN DENOMINATOR ";M
1880 FOR L=1 TO M
1890 PRINT "DEGREE OF TERM ";L;
1895 INPUT M3
1900 M1=ABS(M3)
1910 M2=N0+M1
1920 REM ***** DELETED LINES 1920-2010
2020 FOR I=0 TO M2
2030 H(I)=C(I)
2040 C(I)=0
2050 NEXT I
2060 FOR I=0 TO M1
2070 IF M3>=0 THEN 2100
2080 X=X(I)
2090 GOTO 2110
2100 PRINT "COEFFICIENT OF S^";I;" TERM ";
2105 INPUT X
2110 FOR J=0 TO N0
2120 K=I+J
2130 C(K)=C(K)+H(J)*X
2140 NEXT J
2150 NEXT I

```

```
2160 N0=M2
2170 NEXT L
2175 RETURN
2180 PRINT": DEGREE IS:";N0;"COEFFICIENTS ARE (CONST. FIRST):"
2181 PRINT#1,": DEGREE IS:";N0;"COEFFICIENTS ARE (CONST. FIRST):"
2190 FOR I=0 TO N0
2200 PRINT C(I);
2201 PRINT#1, C(I);
2210 NEXT I
2220 PRINT
2230 PRINT
2231 PRINT#1,
2232 PRINT#1,
2240 RETURN
9999 END
```

Appendix #43.

ROOT LOCUS PROGRAM.

NUMERATOR OF GH

1 DEGREE IS; 2 COEFFICIENTS ARE (CONST. FIRST):  
 -2.861 3.8221 -.05

OPEN LOOP ZEROS

.756018  
 75.688

DENOMINATOR OF GH

1 DEGREE IS; 2 COEFFICIENTS ARE (CONST. FIRST):  
 .862143 -1.85704 1

OPEN LOOP POLES

.925695  
 .931347

CLOSED LOOP POLES FOR K = .01

.909865 + J .780712E-01  
 .909865 - J .780712E-01

CLOSED LOOP POLES FOR K = .02

.891191 + J .107272  
 .891191 - J .107272

CLOSED LOOP POLES FOR K = .05

.835058 + J .153547  
 .835058 - J .153547

CLOSED LOOP POLES FOR K = .1

.741122 + J .17227  
 .741122 - J .17227

CLOSED LOOP POLES FOR K = .2

.443924  
 .659735

CLOSED LOOP POLES FOR K = .5

.736304  
 -.791697

CLOSED LOOP POLES FOR K = 1

.747251  
 -2.81573

CLOSED LOOP POLES FOR K = 2

.751854  
 -7.18203

CLOSED LOOP POLES FOR K = 5

.7544  
 -23.759

CLOSED LOOP POLES FOR K = 10

.755217  
 -73.4831

CLOSED LOOP POLES FOR K = .8



.740256  
-1.18997

CLOSED LOOP POLES FOR K = .55

.738504  
-.990548

```

Appendix #44.
ROOT LOCUS PROGRAM.
NUMERATOR OF GH
: DEGREE IS: 0 COEFFICIENTS ARE (CONST. FIRST);
  3.16504
OPEN LOOP ZEROS
DEGREE IS ZERO, NO ROOTS

DENOMINATOR OF GH
: DEGREE IS: 2 COEFFICIENTS ARE (CONST. FIRST);
  .574281E-01 - .987723 1
OPEN LOOP POLES
  .620385E-01
  .925884
CLOSED LOOP POLES FOR K = .01
  .100389
  .887334
CLOSED LOOP POLES FOR K = .02
  .142905
  .844817
CLOSED LOOP POLES FOR K = .05
  .325878
  .661846
CLOSED LOOP POLES FOR K = .1
  .493861 + J .360801
  .493861 - J .360801
CLOSED LOOP POLES FOR K = .2
  .493861 + J .668234
  .493861 - J .668234
CLOSED LOOP POLES FOR K = .5
  .493861 + J 1.18155
  .493861 - J 1.18155
CLOSED LOOP POLES FOR K = 1
  .493861 + J 1.72585
  .493861 - J 1.72585
CLOSED LOOP POLES FOR K = .07
  .493861 + J .187302
  .493861 - J .187302
CLOSED LOOP POLES FOR K = .06
  .493861 + J .585794E-01
  .493861 - J .585794E-01

```



```

80   FORMAT(5X,'COEFFICIENTS VALUES.',//)
90   FORMAT(5X,'TIME          ',7(I2,' VARIABLE  '))
    PRINT *, 'ENTER NUMBER OF VARIABLES.'
    READ *, XI
    PRINT *, 'ENTER NUMBER OF COEFFICIENTS.'
    READ *, KI
    PRINT *, 'ENTER VARIABLES INITIAL VALUES.'
    DO I=1, XI
        READ *, X(I,1)
        X(I,2)=X(I,1)
        X(I,3)=0.0
    END DO
    PRINT *, 'ENTER COEFFICIENTS VALUES.'
    DO I=1, KI
        READ *, K(I)
    END DO
    PRINT *, 'ENTER INCREMENT OF TIME AND FINAL TIME.'
    READ *, DLT, FTIM
    PRINT *, 'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
    READ *, PTC, MXIT
    PRINT *, 'ENTER DISCRETE TIME.'
    READ *, DSTIM

C
    DO I=1, XI
        Z(I)=I
    END DO

C
C*****
C
C   WRITE TITLE AND INITIAL CONDITIONS.
C*****
C
    WRITE(10,50)
    WRITE(10,60)
    WRITE(10,80)
    WRITE(10,70), (K(I), I=1, KI)
    WRITE(10,60)
    IF (XI.GT.7) THEN
        WRITE(11,50)
        WRITE(11,60)
        WRITE(11,80)
        WRITE(11,70), (K(I), I=1, KI)
        WRITE(11,60)
        WRITE(11,90), (Z(I), I=8, KI)
        WRITE(11,70), T, (X(I,1), I=8, XI)
        XI1=7
    ELSE
        XI1=XI
    ENDIF
    WRITE(10,90), (Z(I), I=1, XI1)
    WRITE(10,70), T, (X(I,1), I=1, XI1)

C-----
C
C   TIME LOOP.
C-----
C
    DO WHILE (T.LE.FTIM)

```

```

C=0
FLAG=0
DISCF=0
C*****
C
C      ITERATION LOOP.
C*****
C
C      DO WHILE ((FLAG.LT.1).AND.(C.LE.MXIT))
C          C=C+1
C          FLAG=1
C          PRINT *, 'C:', C, 'T:', T, 'MXIT', MXIT
C      IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
C          DISCF=1
C          X(2,2)=X(1,2)*K(1)-X(5,2)*K(7)
C          X(3,2)=X(2,2)*K(2)-X(3,1)*K(3)
C          X(4,2)=X(3,1)*K(4)
C      ENDIF
C      XX=4
C      XY=5
C      KX=5
C      KY=6
C      CALL INTI(XX,XY,KX,KY)
C      ENDDO
C      IF (DTM.GE.DSTIM) THEN
C          DTM=0
C      END IF
C      IF (C.GT.MXIT) THEN
C          PRINT *, C, 'ITERATIVE LOOPS AT:', T, 'SEC.'
C      END IF
C      PTC=PTC+1
C      T=T+DLT
C      DTM=DTM+1
C      IF (PTC.EQ.PTCD) THEN
C          PTC=0
C          IF(XI.GT.7) THEN
C              WRITE(11,70), T, (X(I,2), I=8, XI)
C          END IF
C          WRITE(10,70), T, (X(I,2), I=1, XI)
C      END IF
C      DO I=1, XI
C          X(I,1)=X(I,2)
C      END DO
C      ENDDO
C      END

```

Appendix #46.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE
0.0000E+00	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9.0000E-04	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1.8000E-03	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
3.6000E-03	1.0000E+00	1.0000E+00	4.2484E-01	0.0000E+00	0.0000E+00
5.4000E-03	1.0000E+00	1.0000E+00	4.2484E-01	0.0000E+00	0.0000E+00
7.2000E-03	1.0000E+00	1.0000E+00	4.5119E-01	6.9163E+01	1.1592E+01
9.0000E-03	1.0000E+00	1.0000E+00	4.5119E-01	6.9163E+01	2.1765E+02
1.0800E-02	1.0000E+00	6.9753E-01	3.2433E-01	7.3454E+01	6.1534E+02
1.7600E-02	1.0000E+00	6.9753E-01	3.2433E-01	7.3454E+01	8.1926E+02
2.4400E-02	1.0000E+00	3.9266E-01	1.6694E-01	5.2800E+01	1.0182E+03
3.1200E-02	1.0000E+00	3.9266E-01	1.6694E-01	5.2800E+01	1.2087E+03
3.8000E-02	1.0000E+00	1.9937E-01	9.6495E-02	3.0433E+01	1.4609E+03
4.4800E-02	1.0000E+00	1.9937E-01	9.6495E-02	3.0433E+01	1.5786E+03
5.1600E-02	1.0000E+00	1.2039E-01	5.7134E-02	1.5709E+01	1.6304E+03
5.8400E-02	1.0000E+00	1.2039E-01	5.7134E-02	1.5709E+01	1.7277E+03
6.5200E-02	1.0000E+00	1.2888E-01	5.1501E-02	9.3014E+00	1.7318E+03
7.2000E-02	1.0000E+00	1.2888E-01	5.1501E-02	9.3014E+00	1.7359E+03
7.8800E-02	1.0000E+00	1.3510E-01	5.1501E-02	9.3014E+00	1.7388E+03
8.5600E-02	1.0000E+00	1.3510E-01	6.0592E-02	8.3843E+00	1.7088E+03
9.2400E-02	1.0000E+00	1.3510E-01	6.0592E-02	8.3843E+00	1.6941E+03
9.9200E-02	1.0000E+00	1.6024E-01	7.1835E-02	9.8644E+00	1.6773E+03
1.0600E-01	1.0000E+00	1.6024E-01	7.1835E-02	9.8644E+00	1.6809E+03
1.1300E-01	1.0000E+00	1.7716E-01	7.9720E-02	9.8644E+00	1.6451E+03
1.2000E-01	1.0000E+00	1.7716E-01	7.9720E-02	1.1695E+01	1.6339E+03
1.2700E-01	1.0000E+00	1.8473E-01	8.3426E-02	1.1695E+01	1.8126E+03
1.3400E-01	1.0000E+00	1.8473E-01	8.3426E-02	1.1695E+01	1.8076E+03
1.4100E-01	1.0000E+00	1.8600E-01	8.3426E-02	1.2978E+01	1.5963E+03
1.4800E-01	1.0000E+00	1.8600E-01	8.3426E-02	1.2978E+01	1.5975E+03
1.5500E-01	1.0000E+00	1.8600E-01	8.4193E-02	1.3582E+01	1.5967E+03
1.6200E-01	1.0000E+00	1.8600E-01	8.4193E-02	1.3582E+01	1.5961E+03
1.6900E-01	1.0000E+00	1.8443E-01	8.4193E-02	1.3582E+01	1.5972E+03
1.7600E-01	1.0000E+00	1.8443E-01	8.3575E-02	1.3707E+01	1.5972E+03
1.8300E-01	1.0000E+00	1.8443E-01	8.3575E-02	1.3707E+01	1.5983E+03
1.9000E-01	1.0000E+00	1.8238E-01	8.3575E-02	1.3707E+01	1.6007E+03
1.9700E-01	1.0000E+00	1.8238E-01	8.2867E-02	1.3606E+01	1.6020E+03
2.0400E-01	1.0000E+00	1.8238E-01	8.2867E-02	1.3606E+01	1.6033E+03
2.1100E-01	1.0000E+00	1.8091E-01	8.2867E-02	1.3606E+01	1.6043E+03
2.1800E-01	1.0000E+00	1.8091E-01	8.1986E-02	1.3458E+01	1.6052E+03
2.2500E-01	1.0000E+00	1.8091E-01	8.1986E-02	1.3458E+01	1.6061E+03
2.3200E-01	1.0000E+00	1.8091E-01	8.1986E-02	1.3458E+01	1.6066E+03
2.3900E-01	1.0000E+00	1.8091E-01	8.1643E-02	1.3458E+01	1.6071E+03
2.4600E-01	1.0000E+00	1.8020E-01	8.1643E-02	1.3347E+01	1.6075E+03
2.5300E-01	1.0000E+00	1.8020E-01	8.1643E-02	1.3347E+01	1.6075E+03
2.6000E-01	1.0000E+00	1.8020E-01	8.1643E-02	1.3347E+01	1.6076E+03

4.5000E-02	1.0000E+00	1.8020E-01	8.1643E-02	1.3347E+01	1.6077E+03
4.5900E-02	1.0000E+00	1.8004E-01	8.1553E-02	1.3291E+01	1.6078E+03
4.6800E-02	1.0000E+00	1.8004E-01	8.1553E-02	1.3291E+01	1.6077E+03
4.7700E-02	1.0000E+00	1.8004E-01	8.1553E-02	1.3291E+01	1.6076E+03
4.8600E-02	1.0000E+00	1.8015E-01	8.1692E-02	1.3277E+01	1.6075E+03
4.9500E-02	1.0000E+00	1.8015E-01	8.1592E-02	1.3277E+01	1.6074E+03
5.0400E-02	1.0000E+00	1.8031E-01	8.1684E-02	1.3283E+01	1.6073E+03
5.1300E-02	1.0000E+00	1.8031E-01	8.1684E-02	1.3283E+01	1.6072E+03
5.2100E-02	1.0000E+00	1.8044E-01	8.1664E-02	1.3283E+01	1.6071E+03
5.3000E-02	1.0000E+00	1.8044E-01	8.1722E-02	1.3295E+01	1.6070E+03
5.4000E-02	1.0000E+00	1.8044E-01	8.1722E-02	1.3295E+01	1.6069E+03
5.5000E-02	1.0000E+00	1.8050E-01	8.1722E-02	1.3295E+01	1.6069E+03
5.6000E-02	1.0000E+00	1.8050E-01	8.1754E-02	1.3304E+01	1.6069E+03
5.7000E-02	1.0000E+00	1.8050E-01	8.1754E-02	1.3304E+01	1.6068E+03
5.8000E-02	1.0000E+00	1.8052E-01	8.1754E-02	1.3304E+01	1.6068E+03
5.9000E-02	1.0000E+00	1.8052E-01	8.1783E-02	1.3310E+01	1.6068E+03
6.0000E-02	1.0000E+00	1.8052E-01	8.1783E-02	1.3310E+01	1.6068E+03
6.1000E-02	1.0000E+00	1.8051E-01	8.1781E-02	1.3311E+01	1.6068E+03
6.2000E-02	1.0000E+00	1.8051E-01	8.1781E-02	1.3311E+01	1.6068E+03
6.3000E-02	1.0000E+00	1.8051E-01	8.1781E-02	1.3311E+01	1.6068E+03
6.4000E-02	1.0000E+00	1.8051E-01	8.1781E-02	1.3311E+01	1.6068E+03
6.5000E-02	1.0000E+00	1.8050E-01	8.1756E-02	1.3311E+01	1.6069E+03
6.6000E-02	1.0000E+00	1.8050E-01	8.1756E-02	1.3311E+01	1.6069E+03
6.7000E-02	1.0000E+00	1.8049E-01	8.1751E-02	1.3310E+01	1.6069E+03
6.8000E-02	1.0000E+00	1.8049E-01	8.1751E-02	1.3310E+01	1.6069E+03
6.9000E-02	1.0000E+00	1.8049E-01	8.1751E-02	1.3310E+01	1.6069E+03
7.0000E-02	1.0000E+00	1.8048E-01	8.1748E-02	1.3309E+01	1.6069E+03
7.1000E-02	1.0000E+00	1.8048E-01	8.1748E-02	1.3309E+01	1.6069E+03
7.2000E-02	1.0000E+00	1.8048E-01	8.1748E-02	1.3309E+01	1.6069E+03
7.3000E-02	1.0000E+00	1.8048E-01	8.1747E-02	1.3309E+01	1.6069E+03
7.4000E-02	1.0000E+00	1.8048E-01	8.1747E-02	1.3309E+01	1.6069E+03
7.5000E-02	1.0000E+00	1.8048E-01	8.1747E-02	1.3308E+01	1.6069E+03
7.6000E-02	1.0000E+00	1.8048E-01	8.1747E-02	1.3308E+01	1.6069E+03
7.7000E-02	1.0000E+00	1.8048E-01	8.1747E-02	1.3308E+01	1.6069E+03
7.8000E-02	1.0000E+00	1.8048E-01	8.1747E-02	1.3308E+01	1.6069E+03
7.9000E-02	1.0000E+00	1.8048E-01	8.1747E-02	1.3308E+01	1.6069E+03
8.0000E-02	1.0000E+00	1.8048E-01	8.1747E-02	1.3308E+01	1.6069E+03
8.1000E-02	1.0000E+00	1.8048E-01	8.1748E-02	1.3308E+01	1.6069E+03
8.2000E-02	1.0000E+00	1.8048E-01	8.1748E-02	1.3308E+01	1.6069E+03
8.3000E-02	1.0000E+00	1.8048E-01	8.1748E-02	1.3308E+01	1.6069E+03
8.4000E-02	1.0000E+00	1.8048E-01	8.1748E-02	1.3309E+01	1.6069E+03
8.5000E-02	1.0000E+00	1.8048E-01	8.1748E-02	1.3309E+01	1.6069E+03
8.6000E-02	1.0000E+00	1.8048E-01	8.1748E-02	1.3309E+01	1.6069E+03
8.7000E-02	1.0000E+00	1.8049E-01	8.1748E-02	1.3309E+01	1.6069E+03
8.8000E-02	1.0000E+00	1.8049E-01	8.1748E-02	1.3309E+01	1.6069E+03
8.9000E-02	1.0000E+00	1.8049E-01	8.1748E-02	1.3309E+01	1.6069E+03
9.0000E-02	1.0000E+00	1.8049E-01	8.1748E-02	1.3309E+01	1.6069E+03

```

Appendix #47.
ROOT LOCUS PROGRAM.
NUMERATOR OF GH
1 DEGREE IS: 2 COEFFICIENTS ARE (CONST. FIRST):
.121356 .242712 .121356
OPEN LOOP ZEROS
-1
-1
DENOMINATOR OF GH
1 DEGREE IS: 2 COEFFICIENTS ARE (CONST. FIRST):
.757297 -1.7573 1
OPEN LOOP POLES
.757298
1
CLOSED LOOP POLES FOR K = .01
.774216
.078527
CLOSED LOOP POLES FOR K = .02
.795576
.952623
CLOSED LOOP POLES FOR K = .05
.867318 + J .807475E-01
.867318 - J .807475E-01
CLOSED LOOP POLES FOR K = .1
.856123 + J .165105
.856123 - J .165105
CLOSED LOOP POLES FOR K = .2
.834132 + J .259368
.834132 - J .259368
CLOSED LOOP POLES FOR K = .5
.771177 + J .42008
.771177 - J .42008
CLOSED LOOP POLES FOR K = 1
.675336 + J .572262
.675336 - J .572262
CLOSED LOOP POLES FOR K = 2
.511733 + J .736769
.511733 - J .736769
CLOSED LOOP POLES FOR K = 5
.169201 + J .905716
.169201 - J .905716
CLOSED LOOP POLES FOR K = 10
-.1513 + J .931378
-.1513 - J .931378
CLOSED LOOP POLES FOR K = 20
-.451828 + J .851488
-.451828 - J .851488

```



CLOSED LOOP POLES FOR K = 50

-.734198 + J .653159  
-.734198 - J .653159

CLOSED LOOP POLES FOR K = 100

-.85698 + J .4971  
-.85698 - J .4971

CLOSED LOOP POLES FOR K = 200

-.92568 + J .385443  
-.92568 - J .385443

CLOSED LOOP POLES FOR K = 500

-.969541 + J .23676  
-.969541 - J .23676

CLOSED LOOP POLES FOR K = 1000

-.984648 + J .168788  
-.984648 - J .168788

C Appendix #48.  
C

C PROGRAM ZINT6  
C  
C  
C  
C  
C-----

C FUNCTION : This program will perform an iterative calculation  
C of a certain network.  
C It utilizes the INTI subroutine to solve integrator cells,  
C algebraic expressions to solve other nodes, and iterations  
C for long path feedbacks.  
C

C Author : Leonardo Kopeloff. Jan.85  
C

C Language : Fortran-77  
C

C Inputs : Interval, interval quantity, number of state variables,  
C number of coefficients and initial conditions.  
C

C Outputs : State vector time response.  
C

C Linking :Link with INTI subroutine .  
C  
C-----

C  
C VARIABLE DECLARATION.  
C  
C-----

C INTEGER XI,KI,Z(14),XI1,FLAG,PTC/0/,MXIT,C,I,PTCD,XX,XY,KX,KY  
C

C INTEGER DSTIM,DTM/1/,DISCF  
C

C DOUBLE PRECISION X(28,3),K(50),DLT,FTIM,T/0.0/  
C

C COMMON X,K,DLT,FLAG  
C  
C-----

C OPEN THE OUTPUT FILE.  
C  
C-----

C OPEN (UNIT=10,STATUS='NEW',NAME='SP1.DAT')  
C OPEN (UNIT=11,STATUS='NEW',NAME='SP2.DAT')  
C  
C-----

C READ AND PRINT INPUT DATA.  
C  
C-----

50 FORMAT('1',5X,'ITERATIVE METHOD. TIME RESPONSE',/)  
60 FORMAT(/,70('\*'),/)  
70 FORMAT(1P8E13.4)

```

80   FORMAT(5X,'COEFFICIENTS VALUES.',//)
90   FORMAT(5X,'TIME          ',7(I2,' VARIABLE  '))
    PRINT *, 'ENTER NUMBER OF VARIABLES.'
    READ *, XI
    PRINT *, 'ENTER NUMBER OF COEFFICIENTS.'
    READ *, KI
    PRINT *, 'ENTER VARIABLES INITIAL VALUES.'
    DO I=1,XI
      READ *, X(I,1)
      X(I,2)=X(I,1)
      X(I,3)=0.0
    END DO
    PRINT *, 'ENTER COEFFICIENTS VALUES.'
    DO I=1,KI
      READ *, K(I)
    END DO
    PRINT *, 'ENTER INCREMENT OF TIME AND FINAL TIME.'
    READ *, DLT, FTIM
    PRINT *, 'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
    READ *, PTC, MXIT
    PRINT *, 'ENTER DISCRETE TIME.'
    READ *, DSTIM

C
    DO I=1,XI
      Z(I)=I
    END DO

C
C*****
C
C   WRITE TITLE AND INITIAL CONDITIONS.
C*****
C
    WRITE(10,50)
    WRITE(10,60)
    WRITE(10,80)
    WRITE(10,70), (K(I), I=1, KI)
    WRITE(10,60)
    IF (XI.GT.7) THEN
      WRITE(11,50)
      WRITE(11,60)
      WRITE(11,80)
      WRITE(11,70), (K(I), I=1, KI)
      WRITE(11,60)
      WRITE(11,90), (Z(I), I=1, KI)
      WRITE(11,70), T, (X(I,1), I=1, XI)
      XI1=7
    ELSE
      XI1=XI
    ENDIF
    WRITE(10,90), (Z(I), I=1, XI1)
    WRITE(10,70), T, (X(I,1), I=1, XI1)

C-----
C
C   TIME LOOP.
C-----
C
    DO WHILE (T.LE.FTIM)

```

```

C=0
FLAG=0
DISCF=0
C
C*****
C
C      ITERATION LOOP.
C*****
C
C      DO WHILE ((FLAG.LT.1).AND.(C.LE.MXIT))
C          C=C+1
C          FLAG=1
C          PRINT *, 'C:', C, 'T:', T, 'MXIT', MXIT
C      IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
C          DISCF=1
C          X(2,2)=X(1,2)*K(1)-X(8,2)*K(11)
C          X(3,2)=X(2,2)*K(2)
C          X(4,2)=X(3,2)*K(3)-X(4,1)*K(5)
C          X(5,2)=X(3,2)*K(3)+X(4,1)*K(4)
C          X(6,2)=X(5,2)*K(6)-X(8,2)*K(11)-X(6,1)*K(7)
C          X(7,2)=X(6,1)*K(8)
C      ENDIF
C      XX=7
C      XY=8
C      KX=9
C      KY=10
C      CALL INTI(XX,XY,KX,KY)
C      ENDDO
C      IF (DTM.GE.DSTIM) THEN
C          DTM=0
C      END IF
C      IF (C.GT.MXIT) THEN
C          PRINT *, C, 'ITERATIVE LOOPS AT:', T, 'SEC.'
C      END IF
C      PTC=PTC+1
C      T=T+DLT
C      DTM=DTM+1
C      IF (PTC.EQ.PTCD) THEN
C          PTC=0
C          IF(XI.GT.7) THEN
C              WRITE(11,70), T, (X(I,2), I=8, XI)
C          END IF
C          WRITE(10,70), T, (X(I,2), I=1, XI)
C      END IF
C      DO I=1, XI
C          X(I,1)=X(I,2)
C      END DO
C      ENDDO
C      END

```

Appendix #49.

ITERATIVE METHOD. TIME RESPONSE

.....  
COEFFICIENTS VALUES.  
.....

1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
1.0000E+00	7.2000E+01	1.3888E-03	2.0000E+00	4.2484E-01	-6.2039E-02	1.6280E+02
3.3586E+03	2.7800E+01	5.1000E-04	-1.0000E+00	4.2484E-01	-6.2039E-02	1.6280E+02
0.0000E+00	3.6300E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2.7000E-03	3.6300E+00	2.6135E+02	3.6300E+00	3.6300E+00	1.5421E-01	0.0000E+00
5.4000E-03	3.6300E+00	2.6135E+02	7.2595E-01	1.0889E+00	4.7218E-01	2.5105E+01
8.1000E-03	3.6300E+00	3.5202E+00	1.0780E+00	1.8039E+00	6.8587E-01	7.6872E+01
1.0800E-02	3.6300E+00	2.2968E+02	1.3869E+00	2.4749E+00	6.5394E-01	1.1665E+02
1.3500E-02	3.6300E+00	1.8637E+02	1.6696E+00	3.0666E+00	4.4072E-01	1.0645E+02
1.6200E-02	3.6300E+00	1.6691E+02	1.9014E+00	3.5711E+00	2.3263E-01	7.1749E+01
1.8900E-02	3.6300E+00	1.5054E+02	2.1105E+00	4.0120E+00	1.7964E-01	3.7872E+01
2.1600E-02	3.6300E+00	1.4621E+02	2.3136E+00	4.4241E+00	1.7964E-01	2.9245E+01
2.4300E-02	3.6300E+00	1.4511E+02	2.5151E+00	4.8287E+00	2.8141E-01	4.7441E+01
2.7000E-02	3.6300E+00	1.3842E+02	2.7073E+00	5.2244E+00	5.3935E-01	7.4088E+01
2.9700E-02	3.6300E+00	1.2371E+02	2.8792E+00	5.5855E+00	4.9502E-01	8.7008E+01
3.2400E-02	3.6300E+00	1.0558E+02	3.0258E+00	5.9049E+00	3.7592E-01	8.0500E+01
3.5100E-02	3.6300E+00	9.0978E+01	3.1521E+00	6.1779E+00	2.8152E-01	6.1189E+01
3.7800E-02	3.6300E+00	8.3587E+01	3.2682E+00	6.4204E+00	2.7572E-01	4.5632E+01
4.0500E-02	3.6300E+00	8.1642E+01	3.3818E+00	6.6498E+00	3.4808E-01	4.4887E+01
4.3200E-02	3.6300E+00	8.0241E+01	3.4930E+00	6.8748E+00	4.2652E-01	6.6344E+01
4.5900E-02	3.6300E+00	7.5340E+01	3.5977E+00	7.0907E+00	4.5822E-01	8.9437E+01
4.8600E-02	3.6300E+00	6.6604E+01	3.6902E+00	7.2878E+00	4.1842E-01	7.4111E+01
5.1300E-02	3.6300E+00	5.6954E+01	3.7693E+00	7.4594E+00	3.8435E-01	6.7008E+01
5.4000E-02	3.6300E+00	4.9809E+01	3.8384E+00	7.6077E+00	3.5808E-01	6.8284E+01
5.6700E-02	3.6300E+00	4.6432E+01	3.9030E+00	7.7414E+00	3.1591E-01	5.7870E+01
5.9400E-02	3.6300E+00	4.5476E+01	3.9661E+00	7.8591E+00	3.6477E-01	5.2705E+01
6.2100E-02	3.6300E+00	4.4197E+01	4.0274E+00	7.9536E+00	4.0246E-01	5.2705E+01
6.4800E-02	3.6300E+00	4.0900E+01	4.0844E+00	8.1118E+00	4.0921E-01	6.5520E+01
6.7500E-02	3.6300E+00	3.5871E+01	4.1341E+00	8.2184E+00	3.5284E-01	6.6619E+01
7.0200E-02	3.6300E+00	3.0824E+01	4.1789E+00	8.3170E+00	3.3725E-01	6.2691E+01
7.2900E-02	3.6300E+00	2.7374E+01	4.2149E+00	8.3919E+00	3.4649E-01	5.7443E+01
7.5600E-02	3.6300E+00	2.5847E+01	4.2508E+00	8.4588E+00	3.6906E-01	5.4905E+01
7.8300E-02	3.6300E+00	2.5260E+01	4.2858E+00	8.5368E+00	3.8575E-01	6.0084E+01
8.1000E-02	3.6300E+00	2.4575E+01	4.3190E+00	8.6055E+00	3.8505E-01	6.2800E+01
8.3700E-02	3.6300E+00	2.4161E+01	4.3504E+00	8.6700E+00	3.7031E-01	6.0084E+01
8.6400E-02	3.6300E+00	1.9339E+01	4.3772E+00	8.7276E+00	3.5461E-01	6.2686E+01
8.9100E-02	3.6300E+00	1.8742E+01	4.4005E+00	8.7777E+00	3.6906E-01	5.6408E+01
9.1800E-02	3.6300E+00	1.8433E+01	4.4154E+00	8.8220E+00	3.4946E-01	6.0286E+01
9.4500E-02	3.6300E+00	1.3990E+01	4.4608E+00	8.8629E+00	3.5660E-01	5.7731E+01
9.7200E-02	3.6300E+00	1.3272E+01	4.4793E+00	8.9023E+00	3.6843E-01	5.6892E+01
1.0000E-01	3.6300E+00	1.1993E+01	4.4959E+00	8.9410E+00	3.7528E-01	5.8054E+01
1.0530E-01	3.6300E+00	1.0444E+01	4.5104E+00	8.9752E+00	3.7285E-01	5.9981E+01
1.0800E-01	3.6300E+00	1.1576E+01	4.5231E+00	9.0064E+00	3.6442E-01	6.1096E+01
1.1070E-01	3.6300E+00	8.3385E+00	4.5347E+00	9.0335E+00	3.5713E-01	6.0699E+01
1.1340E-01	3.6300E+00	7.9881E+00	4.5458E+00	9.0578E+00	3.5603E-01	5.9328E+01
1.1610E-01	3.6300E+00	1.0929E-01	4.5565E+00	9.0805E+00	3.6072E-01	5.8141E+01
1.1880E-01	3.6300E+00	7.2426E+00	4.5666E+00	9.1023E+00	3.6665E-01	5.7961E+01
1.2150E-01	3.6300E+00	6.4866E+00	4.5766E+00	9.1231E+00	3.6665E-01	5.8691E+01
1.2420E-01	3.6300E+00	5.6519E+00	4.5834E+00	9.1431E+00	3.6691E-01	6.0098E+01
1.2690E-01	3.6300E+00	4.8900E+00	4.5904E+00	9.1590E+00	3.6234E-01	5.9733E+01
1.2960E-01	3.6300E+00	4.4061E-02	4.6124E+00	9.1738E+00	3.5914E-01	5.8989E+01
			4.5968E+00	9.1871E+00	3.5936E-01	5.8468E+01

1.3230E-01 3.6300E+00 6.1532E-02 4.4303E+00 4.6029E+00 9.1997E+00 3.6218E-01 5.8504E+01  
1.9500E-01 3.6300E+00 5.9067E-02 4.2529E+00 4.6088E+00 9.2117E+00 3.6502E-01 5.8963E+01  
1.3770E-01 3.6300E+00 5.4771E-02 3.9435E+00 4.6143E+00 9.2231E+00 3.6573E-01 5.9425E+01  
1.4040E-01 3.6300E+00 4.8732E-02 3.5087E+00 4.6192E+00 9.2338E+00 3.6413E-01 5.9541E+01  
1.4310E-01 3.6300E+00 4.2583E-02 3.0660E+00 4.6234E+00 9.2428E+00 3.6177E-01 5.9281E+01  
1.4580E-01 3.6300E+00 3.6007E-02 2.7365E+00 4.6272E+00 9.2507E+00 3.6047E-01 5.8895E+01  
1.4850E-01 3.6300E+00 3.5469E-02 2.5378E+00 4.6308E+00 9.2580E+00 3.6097E-01 5.8684E+01  
1.5120E-01 3.6300E+00 3.4071E-02 2.4231E+00 4.6342E+00 9.2650E+00 3.6256E+01 5.8766E+01  
1.5390E-01 3.6300E+00 3.2433E-02 2.3351E+00 4.6374E+00 9.2718E+00 3.6384E-01 5.9024E+01  
1.5660E-01 3.6300E+00 2.9776E-02 2.1439E+00 4.6404E+00 9.2788E+00 3.6391E-01 5.9233E+01  
1.5930E-01 3.6300E+00 2.6376E-02 1.8919E+00 4.6430E+00 9.2834E+00 3.6290E-01 5.9244E+01  
1.6200E-01 3.6300E+00 2.3158E-02 1.6674E+00 4.6454E+00 9.2884E+00 3.6172E-01 5.9244E+01  
1.6470E-01 3.6300E+00 2.0892E-02 1.5042E+00 4.6474E+00 9.2928E+00 3.6172E-01 5.9080E+01  
1.6740E-01 3.6300E+00 1.9640E-02 1.4141E+00 4.6494E+00 9.2968E+00 3.6169E-01 5.8886E+01  
1.7010E-01 3.6300E+00 1.8027E-02 1.3555E+00 4.6513E+00 9.3007E+00 3.6254E-01 5.8812E+01  
1.7280E-01 3.6300E+00 1.7785E-02 1.2791E+00 4.6531E+00 9.3044E+00 3.6309E-01 5.8884E+01  
1.7550E-01 3.6300E+00 1.6170E-02 1.1642E+00 4.6547E+00 9.3077E+00 3.6297E-01 5.9022E+01  
1.7820E-01 3.6300E+00 1.4281E-02 1.0290E+00 4.6561E+00 9.3108E+00 3.6238E-01 5.9111E+01  
1.8090E-01 3.6300E+00 1.2626E-02 0.9911E-01 4.6574E+00 9.3135E+00 3.6182E-01 5.9091E+01  
1.8360E-01 3.6300E+00 1.1505E-02 8.2838E-01 4.6585E+00 9.3159E+00 3.6199E-01 5.8995E+01  
1.8630E-01 3.6300E+00 1.0870E-02 7.8764E-01 4.6598E+00 9.3181E+00 3.6199E-01 5.8904E+01  
1.8900E-01 3.6300E+00 1.0381E-02 7.4743E-01 4.6610E+00 9.3203E+00 3.6243E-01 5.8882E+01  
1.9170E-01 3.6300E+00 9.7103E-03 6.9914E-01 4.6618E+00 9.3223E+00 3.6243E-01 5.8933E+01  
1.9440E-01 3.6300E+00 8.7760E-03 6.3187E-01 4.6625E+00 9.3250E+00 3.6250E-01 5.9003E+01  
1.9710E-01 3.6300E+00 7.7544E-03 5.5837E-01 4.6633E+00 9.3258E+00 3.6317E-01 5.9037E+01  
1.9980E-01 3.6300E+00 6.9008E-03 4.9686E-01 4.6633E+00 9.3272E+00 3.6192E-01 5.8015E+01  
2.0250E-01 3.6300E+00 6.3440E-03 4.5677E-01 4.6646E+00 9.3272E+00 3.6192E-01 5.8962E+01  
2.0520E-01 3.6300E+00 6.0107E-03 4.3777E-01 4.6652E+00 9.3285E+00 3.6192E-01 5.8921E+01  
2.0790E-01 3.6300E+00 5.7117E-03 4.1128E-01 4.6652E+00 9.3295E+00 3.6210E-01 5.8919E+01  
2.1060E-01 3.6300E+00 5.2985E-03 3.8149E-01 4.6658E+00 9.3310E+00 3.6231E-01 5.8950E+01  
2.1330E-01 3.6300E+00 4.7626E-03 3.4291E-01 4.6668E+00 9.3321E+00 3.6238E-01 5.8985E+01  
2.1600E-01 3.6300E+00 4.2148E-03 3.0345E-01 4.6672E+00 9.3331E+00 3.6228E-01 5.8996E+01  
2.1870E-01 3.6300E+00 3.7796E-03 2.7213E-01 4.6672E+00 9.3340E+00 3.6210E-01 5.8950E+01  
2.2140E-01 3.6300E+00 3.5007E-03 2.6209E-01 4.6679E+00 9.3348E+00 3.6200E-01 5.8933E+01  
2.2410E-01 3.6300E+00 3.3197E-03 2.5092E-01 4.6679E+00 9.3355E+00 3.6202E-01 5.8933E+01  
2.2680E-01 3.6300E+00 3.1363E-03 2.3582E-01 4.6683E+00 9.3368E+00 3.6213E-01 5.8933E+01  
2.2950E-01 3.6300E+00 2.9545E-03 2.2788E-01 4.6686E+00 9.3368E+00 3.6223E-01 5.8955E+01  
2.3220E-01 3.6300E+00 2.8544E-03 2.1898E-01 4.6689E+00 9.3374E+00 3.6224E-01 5.8971E+01  
2.3490E-01 3.6300E+00 2.8544E-03 2.0932E-01 4.6691E+00 9.3380E+00 3.6217E-01 5.8973E+01  
2.3760E-01 3.6300E+00 2.7378E-03 1.9813E-01 4.6693E+00 9.3385E+00 3.6209E-01 5.8962E+01  
2.4030E-01 3.6300E+00 2.6032E-03 1.8532E-01 4.6696E+00 9.3389E+00 3.6205E-01 5.8948E+01  
2.4300E-01 3.6300E+00 2.4522E-03 1.7142E-01 4.6697E+00 9.3393E+00 3.6207E-01 5.8941E+01  
2.4570E-01 3.6300E+00 2.2932E-03 1.5682E-01 4.6699E+00 9.3397E+00 3.6213E-01 5.8945E+01  
2.4840E-01 3.6300E+00 2.1308E-03 1.4182E-01 4.6701E+00 9.3400E+00 3.6217E-01 5.8955E+01  
2.5110E-01 3.6300E+00 1.9720E-03 1.2702E-01 4.6703E+00 9.3404E+00 3.6217E-01 5.8955E+01  
2.5380E-01 3.6300E+00 1.8145E-03 1.1112E-01 4.6704E+00 9.3407E+00 3.6213E-01 5.8961E+01  
2.5650E-01 3.6300E+00 1.7518E-03 9.0128E-02 4.6705E+00 9.3409E+00 3.6209E-01 5.8954E+01  
2.5920E-01 3.6300E+00 1.6663E-03 8.2054E-02 4.6706E+00 9.3412E+00 3.6209E-01 5.8948E+01  
2.6190E-01 3.6300E+00 1.6663E-03 7.6775E-02 4.6707E+00 9.3412E+00 3.6207E-01 5.8945E+01  
2.6460E-01 3.6300E+00 1.0082E-03 7.2594E-02 4.6708E+00 9.3416E+00 3.6212E-01 5.8949E+01  
2.6730E-01 3.6300E+00 9.4068E-04 6.7723E-02 4.6709E+00 9.3418E+00 3.6214E-01 5.8945E+01  
2.7000E-01 3.6300E+00 8.5533E-04 6.1584E-02 4.6710E+00 9.3420E+00 3.6213E-01 5.8956E+01  
2.7270E-01 3.6300E+00 7.6366E-04 5.4984E-02 4.6711E+00 9.3421E+00 3.6211E-01 5.8955E+01

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

1.000E+00 7.200E+01 1.388E-03 2.000E+00 -1.000E+00 4.2484E-01 -6.2039E-02 1.6280E+02  
 3.356E+03 2.780E+01 5.100E-04

B VARIABLE

0.000E+00  
 2.700E-03  
 5.400E-03  
 8.100E-03  
 1.080E-02  
 1.350E-02  
 1.620E-02  
 1.890E-02  
 2.160E-02  
 2.430E-02  
 2.700E-02  
 2.970E-02  
 3.240E-02  
 3.510E-02  
 3.780E-02  
 4.050E-02  
 4.320E-02  
 4.590E-02  
 4.860E-02  
 5.130E-02  
 5.400E-02  
 5.670E-02  
 5.940E-02  
 6.210E-02  
 6.480E-02  
 6.750E-02  
 7.020E-02  
 7.290E-02  
 7.560E-02  
 7.830E-02  
 8.100E-02  
 8.370E-02  
 8.640E-02  
 8.910E-02  
 9.180E-02  
 9.450E-02  
 9.720E-02  
 9.990E-02  
 1.0260E-01  
 1.0530E-01  
 1.080E-01  
 1.107E-01  
 1.134E-01  
 1.161E-01  
 1.188E-01  
 1.215E-01  
 1.242E-01  
 1.269E-01  
 1.296E-01  
 1.323E-01  
 1.350E-01

0.000E+00  
 0.000E+00  
 4.2075E+00  
 2.3177E+02  
 8.9201E+02  
 1.8015E+03  
 2.5950E+03  
 3.0281E+03  
 3.1383E+03  
 3.1698E+03  
 3.3592E+03  
 3.7853E+03  
 4.2585E+03  
 4.6500E+03  
 4.9464E+03  
 5.0357E+03  
 5.0749E+03  
 5.1317E+03  
 5.2750E+03  
 5.4644E+03  
 5.6803E+03  
 5.9164E+03  
 6.0081E+03  
 6.1459E+03  
 6.2874E+03  
 6.3746E+03  
 6.4148E+03  
 6.4305E+03  
 6.4586E+03  
 6.5167E+03  
 6.5937E+03  
 6.6838E+03  
 6.7079E+03  
 6.7267E+03  
 6.7372E+03  
 6.7512E+03  
 6.7925E+03  
 6.8347E+03  
 6.8702E+03  
 6.8912E+03  
 6.9005E+03  
 6.9077E+03  
 6.9211E+03  
 6.9418E+03  
 6.9645E+03  
 6.9823E+03  
 6.9923E+03  
 7.0021E+03

1.3770E-01 7.0106E+03  
1.4040E-01 7.0225E+03  
1.4310E-01 7.0345E+03  
1.4580E-01 7.0465E+03  
1.4850E-01 7.0585E+03  
1.5120E-01 7.0705E+03  
1.5390E-01 7.0825E+03  
1.5660E-01 7.0945E+03  
1.5930E-01 7.1065E+03  
1.6200E-01 7.1185E+03  
1.6470E-01 7.1305E+03  
1.6740E-01 7.1425E+03  
1.7010E-01 7.1545E+03  
1.7280E-01 7.1665E+03  
1.7550E-01 7.1785E+03  
1.7820E-01 7.1905E+03  
1.8090E-01 7.2025E+03  
1.8360E-01 7.2145E+03  
1.8630E-01 7.2265E+03  
1.8900E-01 7.2385E+03  
1.9170E-01 7.2505E+03  
1.9440E-01 7.2625E+03  
1.9710E-01 7.2745E+03  
1.9980E-01 7.2865E+03  
2.0250E-01 7.2985E+03  
2.0520E-01 7.3105E+03  
2.0790E-01 7.3225E+03  
2.1060E-01 7.3345E+03  
2.1330E-01 7.3465E+03  
2.1600E-01 7.3585E+03  
2.1870E-01 7.3705E+03  
2.2140E-01 7.3825E+03  
2.2410E-01 7.3945E+03  
2.2680E-01 7.4065E+03  
2.2950E-01 7.4185E+03  
2.3220E-01 7.4305E+03  
2.3490E-01 7.4425E+03  
2.3760E-01 7.4545E+03  
2.4030E-01 7.4665E+03  
2.4300E-01 7.4785E+03  
2.4570E-01 7.4905E+03  
2.4840E-01 7.5025E+03  
2.5110E-01 7.5145E+03  
2.5380E-01 7.5265E+03  
2.5650E-01 7.5385E+03  
2.5920E-01 7.5505E+03  
2.6190E-01 7.5625E+03  
2.6460E-01 7.5745E+03  
2.6730E-01 7.5865E+03  
2.7000E-01 7.5985E+03





```

80   FORMAT(5X,'COEFFICIENTS VALUES.',//)
90   FORMAT(5X,'TIME          ',7(I2,' VARIABLE  '))
    PRINT *, 'ENTER NUMBER OF VARIABLES.'
    READ *, XI
    PRINT *, 'ENTER NUMBER OF COEFFICIENTS.'
    READ *, KI
    PRINT *, 'ENTER VARIABLES INITIAL VALUES.'
    DO I=1, XI
        READ *, X(I,1)
        X(I,2)=X(I,1)
        X(I,3)=0.0
    END DO
    PRINT *, 'ENTER COEFFICIENTS VALUES.'
    DO I=1, KI
        READ *, K(I)
    END DO
    PRINT *, 'ENTER INCREMENT OF TIME AND FINAL TIME.'
    READ *, DLT, FTIM
    PRINT *, 'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
    READ *, PTC, MXIT
    PRINT *, 'ENTER DISCRETE TIME.'
    READ *, DSTIM

```

C

```

    DO I=1, XI
        Z(I)=I
    END DO

```

C

C\*\*\*\*\*

C

```

    WRITE TITLE AND INITIAL CONDITIONS.

```

C

C\*\*\*\*\*

C

```

    WRITE(10,50)
    WRITE(10,60)
    WRITE(10,80)
    WRITE(10,70), (K(I), I=1, KI)
    WRITE(10,60)
    IF (XI.GT.7) THEN
        WRITE(11,50)
        WRITE(11,60)
        WRITE(11,80)
        WRITE(11,70), (K(I), I=1, KI)
        WRITE(11,60)
        WRITE(11,90), (Z(I), I=8, KI)
        WRITE(11,70), T, (X(I,1), I=8, XI)
        XI1=7
    ELSE
        XI1=XI
    ENDIF
    WRITE(10,90), (Z(I), I=1, XI1)
    WRITE(10,70), T, (X(I,1), I=1, XI1)

```

C

C-----

C

```

    TIME LOOP.

```

C

C-----

C

```

    DO WHILE (T.LE.FTIM)

```

C

```

C
C      C=0
C      FLAG=0
C      DISCF=0
C
C*****
C      ITERATION LOOP.
C*****
C
C      DO WHILE ((FLAG.LT.1).AND.(C.LE.MXIT))
C          C=C+1
C          FLAG=1
C          PRINT *, 'C:', C, 'T:', T, 'MXIT', MXIT
C      IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
C          DISCF=1
C          X(2,2)=X(1,2)*K(1)-X(8,2)*K(11)
C          X(3,2)=X(2,2)*K(2)
C          IF (X(3,2).GT.72.6) THEN
C              X(3,2)=72.6
C          ELSEIF (X(3,2).LT.-72.6) THEN
C              X(3,2)=-72.6
C          ENDIF
C          X(4,2)=X(3,2)*K(3)-X(4,1)*K(5)
C          X(5,2)=X(3,2)*K(3)+X(4,1)*K(4)
C          X(6,2)=X(5,2)*K(6)-X(8,2)*K(11)-X(6,1)*K(7)
C          X(7,2)=X(6,1)*K(8)
C      ENDIF
C      XX=7
C      XY=8
C      KX=9
C      KY=10
C      CALL INTI (XX,XY,KX,KY)
C      ENDDO
C      IF (DTM.GE.DSTIM) THEN
C          DTM=0
C      END IF
C      IF (C.GT.MXIT) THEN
C          PRINT *, C, 'ITERATIVE LOOPS AT:', T, 'SEC.'
C      END IF
C      PTC=PTC+1
C      T=T+DLT
C      DTM=DTM+1
C      IF (PTC.EQ.PTCD) THEN
C          PTC=0
C          IF (XI.GT.7) THEN
C              WRITE(11,70), T, (X(I,2), I=8, XI)
C          END IF
C          WRITE(10,70), T, (X(I,2), I=1, XI1)
C      END IF
C      DO I=1, XI
C          X(I,1)=X(I,2)
C      END DO
C      ENDDO
C      END

```

Appendix #51.

ITERATIVE METHOD. TIME RESPONSE

COEFFICIENTS VALUES.

TIME	1 VARIABLE	2 VARIABLE	3 VARIABLE	4 VARIABLE	5 VARIABLE	6 VARIABLE	7 VARIABLE
0.0000E+00	7.2000E+01	1.3888E-03	2.0000E+00	-1.0000E+00	4.2484E-01	-6.2039E-02	1.6280E+02
0.0000E+00	3.6300E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	3.6300E+00	3.6300E+00	7.2600E+01	1.0083E-01	1.0083E-01	1.0083E-01	0.0000E+00
0.0000E+00	3.6300E+00	3.6300E+00	7.2600E+01	2.0185E-01	3.0248E-01	1.3116E-01	6.9735E+00
0.0000E+00	3.6300E+00	3.5955E+00	7.2600E+01	3.0248E-01	5.0413E-01	1.9181E-01	6.9735E+00
0.0000E+00	3.6300E+00	3.5078E+00	7.2600E+01	4.0331E-01	7.0579E-01	1.8951E-01	3.1227E+01
0.0000E+00	3.6300E+00	3.3782E+00	7.2600E+01	5.0413E-01	9.0744E-01	1.4561E-01	3.0853E+01
0.0000E+00	3.6300E+00	3.2591E+00	7.2600E+01	6.0498E-01	1.1091E+00	1.0935E-01	2.3706E+01
0.0000E+00	3.6300E+00	3.1798E+00	7.2600E+01	7.0579E-01	1.3107E+00	1.1346E-01	1.7802E+01
0.0000E+00	3.6300E+00	3.1326E+00	7.2600E+01	8.0682E-01	1.5124E+00	1.2202E-01	1.8471E+01
0.0000E+00	3.6300E+00	3.0864E+00	7.2600E+01	9.0744E-01	1.7141E+00	1.9404E-01	2.4778E+01
0.0000E+00	3.6300E+00	3.0159E+00	7.2600E+01	1.0083E+00	1.9157E+00	2.1179E-01	3.1506E+01
0.0000E+00	3.6300E+00	2.9202E+00	7.2600E+01	1.1091E+00	2.1174E+00	2.0284E-01	3.4479E+01
0.0000E+00	3.6300E+00	2.8182E+00	7.2600E+01	1.2099E+00	2.3190E+00	1.8598E-01	3.7025E+01
0.0000E+00	3.6300E+00	2.7297E+00	7.2600E+01	1.3107E+00	2.5207E+00	1.8215E-01	3.9274E+01
0.0000E+00	3.6300E+00	2.6598E+00	7.2600E+01	1.4116E+00	2.7223E+00	1.9744E-01	4.1105E+01
0.0000E+00	3.6300E+00	2.5979E+00	7.2600E+01	1.5124E+00	2.9240E+00	2.2233E-01	4.2655E+01
0.0000E+00	3.6300E+00	2.5294E+00	7.2600E+01	1.6132E+00	3.1256E+00	2.4756E-01	4.3969E+01
0.0000E+00	3.6300E+00	2.4492E+00	7.2600E+01	1.7141E+00	3.3273E+00	2.7280E-01	4.5051E+01
0.0000E+00	3.6300E+00	2.3591E+00	7.2600E+01	1.8149E+00	3.5290E+00	2.9804E-01	4.5896E+01
0.0000E+00	3.6300E+00	2.2722E+00	7.2600E+01	1.9157E+00	3.7308E+00	3.2325E-01	4.6456E+01
0.0000E+00	3.6300E+00	2.1938E+00	7.2600E+01	2.0165E+00	3.9325E+00	3.4856E-01	4.6859E+01
0.0000E+00	3.6300E+00	2.1220E+00	7.2600E+01	2.1174E+00	4.1343E+00	3.7387E-01	4.7121E+01
0.0000E+00	3.6300E+00	2.0504E+00	7.2600E+01	2.2182E+00	4.3360E+00	3.9948E-01	4.7262E+01
0.0000E+00	3.6300E+00	1.9786E+00	7.2600E+01	2.3190E+00	4.5377E+00	4.2533E-01	4.7293E+01
0.0000E+00	3.6300E+00	1.9083E+00	7.2600E+01	2.4198E+00	4.7394E+00	4.5222E-01	4.7234E+01
0.0000E+00	3.6300E+00	1.8382E+00	7.2600E+01	2.5207E+00	4.9411E+00	4.8111E-01	4.7085E+01
0.0000E+00	3.6300E+00	1.7728E+00	7.2600E+01	2.6215E+00	5.1428E+00	5.0999E-01	4.6847E+01
0.0000E+00	3.6300E+00	1.7083E+00	7.2600E+01	2.7223E+00	5.3445E+00	5.3888E-01	4.6522E+01
0.0000E+00	3.6300E+00	1.6513E+00	7.2600E+01	2.8231E+00	5.5462E+00	5.6777E-01	4.6107E+01
0.0000E+00	3.6300E+00	1.5942E+00	7.2600E+01	2.9240E+00	5.7479E+00	5.9666E-01	4.5602E+01
0.0000E+00	3.6300E+00	1.5001E+00	7.2600E+01	3.0248E+00	5.9496E+00	6.2555E-01	4.5007E+01
0.0000E+00	3.6300E+00	1.4272E+00	7.2600E+01	3.1256E+00	6.1513E+00	6.5444E-01	4.4332E+01
0.0000E+00	3.6300E+00	1.3408E+00	7.2600E+01	3.2265E+00	6.3530E+00	6.8333E-01	4.3587E+01
0.0000E+00	3.6300E+00	1.2605E+00	7.2600E+01	3.3273E+00	6.5517E+00	7.1222E-01	4.2772E+01
0.0000E+00	3.6300E+00	1.1821E+00	7.2600E+01	3.4282E+00	6.7504E+00	7.4111E-01	4.1887E+01
0.0000E+00	3.6300E+00	1.1052E+00	7.2600E+01	3.5290E+00	6.9491E+00	7.7000E-01	4.0932E+01
0.0000E+00	3.6300E+00	1.0282E+00	7.2600E+01	3.6299E+00	7.1478E+00	7.9888E-01	4.0003E+01
0.0000E+00	3.6300E+00	9.5020E-01	7.2600E+01	3.7308E+00	7.3465E+00	8.2777E-01	3.9108E+01
0.0000E+00	3.6300E+00	8.7108E-01	7.2600E+01	3.8317E+00	7.5452E+00	8.5666E-01	3.8238E+01
0.0000E+00	3.6300E+00	7.9347E-01	7.2600E+01	3.9325E+00	7.7439E+00	8.8555E-01	3.7393E+01
0.0000E+00	3.6300E+00	7.2238E-01	7.2600E+01	4.0334E+00	7.9426E+00	9.1444E-01	3.6568E+01
0.0000E+00	3.6300E+00	6.6143E-01	7.2600E+01	4.1343E+00	8.1413E+00	9.4333E-01	3.5763E+01
0.0000E+00	3.6300E+00	6.1005E-01	7.2600E+01	4.2352E+00	8.3400E+00	9.7222E-01	3.4978E+01
0.0000E+00	3.6300E+00	5.6433E-01	7.2600E+01	4.3360E+00	8.5387E+00	1.0011E+00	3.4223E+01
0.0000E+00	3.6300E+00	5.2020E-01	7.2600E+01	4.4369E+00	8.7374E+00	1.0300E+00	3.3498E+01
0.0000E+00	3.6300E+00	4.7614E-01	7.2600E+01	4.5377E+00	8.9361E+00	1.0589E+00	3.2803E+01
0.0000E+00	3.6300E+00	4.3364E-01	7.2600E+01	4.6386E+00	9.1348E+00	1.0878E+00	3.2138E+01
0.0000E+00	3.6300E+00	3.9255E-01	7.2600E+01	4.7394E+00	9.3335E+00	1.1167E+00	3.1503E+01
0.0000E+00	3.6300E+00	3.5288E-01	7.2600E+01	4.8403E+00	9.5322E+00	1.1456E+00	3.0898E+01
0.0000E+00	3.6300E+00	3.1464E-01	7.2600E+01	4.9411E+00	9.7309E+00	1.1745E+00	3.0323E+01
0.0000E+00	3.6300E+00	2.7688E-01	7.2600E+01	5.0420E+00	9.9296E+00	1.2034E+00	2.9778E+01
0.0000E+00	3.6300E+00	2.4064E-01	7.2600E+01	5.1428E+00	10.1283E+00	1.2323E+00	2.9263E+01
0.0000E+00	3.6300E+00	2.0593E-01	7.2600E+01	5.2437E+00	10.3270E+00	1.2612E+00	2.8778E+01
0.0000E+00	3.6300E+00	1.7264E-01	7.2600E+01	5.3445E+00	10.5257E+00	1.2901E+00	2.8323E+01
0.0000E+00	3.6300E+00	1.4078E-01	7.2600E+01	5.4454E+00	10.7244E+00	1.3190E+00	2.7898E+01
0.0000E+00	3.6300E+00	1.1147E-01	7.2600E+01	5.5462E+00	10.9231E+00	1.3479E+00	2.7503E+01
0.0000E+00	3.6300E+00	8.3711E-02	7.2600E+01	5.6471E+00	11.1218E+00	1.3768E+00	2.7138E+01
0.0000E+00	3.6300E+00	5.8444E-02	7.2600E+01	5.7479E+00	11.3205E+00	1.4057E+00	2.6803E+01
0.0000E+00	3.6300E+00	3.4666E-02	7.2600E+01	5.8488E+00	11.5192E+00	1.4346E+00	2.6498E+01
0.0000E+00	3.6300E+00	1.2555E-02	7.2600E+01	5.9496E+00	11.7179E+00	1.4635E+00	2.6223E+01
0.0000E+00	3.6300E+00	3.6281E-03	7.2600E+01	6.0505E+00	11.9166E+00	1.4924E+00	2.5978E+01
0.0000E+00	3.6300E+00	3.3470E-04	7.2600E+01	6.1513E+00	12.1153E+00	1.5213E+00	2.5753E+01

1.3230E-01 3.6300E+00 3.0936E-01 2.2274E+01 4.3294E+00 6.6278E+00 3.6744E-01 5.9473E+01  
1.3500E-01 3.6300E+00 2.8468E-01 2.0497E+01 4.3578E+00 8.6872E+00 3.6813E-01 5.9819E+01  
1.3770E-01 3.6300E+00 2.6025E-01 1.8738E+01 4.3839E+00 8.7417E+00 3.6589E-01 5.9931E+01  
1.4040E-01 3.6300E+00 2.3707E-01 1.7089E+01 4.4076E+00 8.7914E+00 3.6476E-01 5.9730E+01  
1.4310E-01 3.6300E+00 2.1644E-01 1.5584E+01 4.4282E+00 8.8368E+00 3.6326E-01 5.9382E+01  
1.4580E-01 3.6300E+00 1.9883E-01 1.4318E+01 4.4481E+00 8.8783E+00 3.6320E-01 5.9353E+01  
1.4850E-01 3.6300E+00 1.8359E-01 1.3219E+01 4.4675E+00 8.9166E+00 3.6420E-01 5.9158E+01  
1.5120E-01 3.6300E+00 1.6952E-01 1.2205E+01 4.4844E+00 8.9519E+00 3.6470E-01 5.9225E+01  
1.5390E-01 3.6300E+00 1.574E-01 1.1214E+01 4.5000E+00 8.9844E+00 3.6530E-01 5.9453E+01  
1.5660E-01 3.6300E+00 1.4225E-01 1.0242E+01 4.5142E+00 9.0147E+00 3.6477E-01 5.9470E+01  
1.5930E-01 3.6300E+00 1.2965E-01 9.3348E+00 4.5272E+00 9.0414E+00 3.6377E-01 5.9336E+01  
1.6200E-01 3.6300E+00 1.1854E-01 8.5351E+00 4.5399E+00 9.0662E+00 3.6274E-01 5.9156E+01  
1.6470E-01 3.6300E+00 1.0940E-01 7.8508E+00 4.5499E+00 9.0899E+00 3.6286E-01 5.9054E+01  
1.6740E-01 3.6300E+00 1.0068E-01 7.2490E+00 4.5600E+00 9.1093E+00 3.6342E-01 5.9073E+01  
1.7010E-01 3.6300E+00 9.2851E-02 6.6853E+00 4.5693E+00 9.1293E+00 3.6385E-01 5.9165E+01  
1.7280E-01 3.6300E+00 8.5187E-02 6.173E+00 4.5778E+00 9.1471E+00 3.6377E-01 5.9224E+01  
1.7550E-01 3.6300E+00 7.7765E-02 5.699E+00 4.5856E+00 9.1634E+00 3.6327E-01 5.9140E+01  
1.7820E-01 3.6300E+00 7.0938E-02 5.2588E+00 4.5927E+00 9.1782E+00 3.6272E-01 5.9140E+01  
1.8090E-01 3.6300E+00 6.4945E-02 4.8481E+00 4.5992E+00 9.1918E+00 3.6247E-01 5.9050E+01  
1.8360E-01 3.6300E+00 5.978E-02 4.4781E+00 4.6051E+00 9.2043E+00 3.6260E-01 5.9010E+01  
1.8630E-01 3.6300E+00 5.5197E-02 4.1407E+00 4.6107E+00 9.2158E+00 3.6290E-01 5.9032E+01  
1.8900E-01 3.6300E+00 5.0842E-02 3.8343E+00 4.6157E+00 9.2264E+00 3.6307E-01 5.9080E+01  
1.9170E-01 3.6300E+00 4.6588E-02 3.5438E+00 4.6204E+00 9.2361E+00 3.6296E-01 5.9070E+01  
1.9440E-01 3.6300E+00 4.2519E-02 3.2614E+00 4.6247E+00 9.2451E+00 3.6287E-01 5.9090E+01  
1.9710E-01 3.6300E+00 3.8817E-02 2.9982E+00 4.6285E+00 9.2532E+00 3.6241E-01 5.9043E+01  
1.9980E-01 3.6300E+00 3.5590E-02 2.7625E+00 4.6321E+00 9.2606E+00 3.6233E-01 5.9000E+01  
2.0250E-01 3.6300E+00 3.2789E-02 2.5480E+00 4.6354E+00 9.2675E+00 3.6242E-01 5.8987E+01  
2.0520E-01 3.6300E+00 3.0252E-02 2.3608E+00 4.6384E+00 9.2738E+00 3.6257E-01 5.9003E+01  
2.0790E-01 3.6300E+00 2.7830E-02 2.2003E+00 4.6412E+00 9.2796E+00 3.6263E-01 5.9077E+01  
2.1060E-01 3.6300E+00 2.5477E-02 2.0343E+00 4.6437E+00 9.2849E+00 3.6254E-01 5.9036E+01  
2.1330E-01 3.6300E+00 2.3253E-02 1.8742E+00 4.6461E+00 9.2898E+00 3.6238E-01 5.9022E+01  
2.1600E-01 3.6300E+00 2.1250E-02 1.7300E+00 4.6482E+00 9.2942E+00 3.6226E-01 5.8996E+01  
2.1870E-01 3.6300E+00 1.9506E-02 1.6044E+00 4.6501E+00 9.2983E+00 3.6224E-01 5.8976E+01  
2.2140E-01 3.6300E+00 1.7978E-02 1.4944E+00 4.6519E+00 9.3021E+00 3.6230E-01 5.8973E+01  
2.2410E-01 3.6300E+00 1.6648E-02 1.3934E+00 4.6536E+00 9.3055E+00 3.6237E-01 5.8983E+01  
2.2680E-01 3.6300E+00 1.5231E-02 1.2966E+00 4.6551E+00 9.3087E+00 3.6238E-01 5.8994E+01  
2.2950E-01 3.6300E+00 1.3932E-02 1.2031E+00 4.6565E+00 9.3116E+00 3.6232E-01 5.8966E+01  
2.3220E-01 3.6300E+00 1.2720E-02 1.1182E-01 4.6578E+00 9.3143E+00 3.6224E-01 5.8966E+01  
2.3490E-01 3.6300E+00 1.1636E-02 1.0399E-01 4.6589E+00 9.3167E+00 3.6219E-01 5.8972E+01  
2.3760E-01 3.6300E+00 1.0692E-02 9.6782E-01 4.6600E+00 9.3189E+00 3.6219E-01 5.8944E+01  
2.4030E-01 3.6300E+00 9.8554E-03 9.0299E-01 4.6610E+00 9.3210E+00 3.6222E-01 5.8964E+01  
2.4300E-01 3.6300E+00 9.0784E-03 8.3782E-01 4.6619E+00 9.3229E+00 3.6225E-01 5.8970E+01  
2.4570E-01 3.6300E+00 8.3338E-03 7.8007E-01 4.6627E+00 9.3245E+00 3.6225E-01 5.8975E+01  
2.4840E-01 3.6300E+00 7.6185E-03 7.2909E-01 4.6635E+00 9.3259E+00 3.6221E-01 5.8974E+01  
2.5110E-01 3.6300E+00 6.9596E-03 6.8460E-01 4.6642E+00 9.3277E+00 3.6217E-01 5.8968E+01  
2.5380E-01 3.6300E+00 6.3236E-03 6.4589E-01 4.6648E+00 9.3290E+00 3.6215E-01 5.8961E+01  
2.5650E-01 3.6300E+00 5.8009E-03 6.1199E-01 4.6654E+00 9.3302E+00 3.6215E-01 5.8958E+01  
2.5920E-01 3.6300E+00 5.4017E-03 5.8183E-01 4.6659E+00 9.3314E+00 3.6217E-01 5.8959E+01  
2.6190E-01 3.6300E+00 5.0270E-03 5.5495E-01 4.6664E+00 9.3324E+00 3.6218E-01 5.8962E+01  
2.6460E-01 3.6300E+00 4.6832E-03 5.3082E-01 4.6669E+00 9.3334E+00 3.6218E-01 5.8964E+01  
2.6730E-01 3.6300E+00 4.3673E-03 5.0906E-01 4.6673E+00 9.3342E+00 3.6216E-01 5.8963E+01  
2.7000E-01 3.6300E+00 4.0889E-03 4.8999E-01 4.6677E+00 9.3350E+00 3.6214E-01 5.8959E+01

ITERATIVE METHOD. TIME RESPONSE

.....  
 COEFFICIENTS VALUES.  
 .....

1.0000E+00 7.2000E-01 1.3888E-03 2.0000E+00 -1.0000E+00 4.2484E-01 -6.2039E-02 1.6280E+02  
 3.3566E+03 2.7800E+01 5.1000E-04

8 VARIABLE

TIME	8 VARIABLE
0.0000E+00	0.0000E+00
2.7000E-03	0.0000E+00
5.4000E-03	1.1687E+00
8.1000E-03	6.4380E+01
1.0800E-02	2.4782E+02
1.3500E-02	5.0248E+02
1.6200E-02	7.3432E+02
1.8900E-02	8.8721E+02
2.1600E-02	9.7859E+02
2.4300E-02	1.0702E+03
2.7000E-02	1.2103E+03
2.9700E-02	1.3900E+03
3.2400E-02	1.5987E+03
3.5100E-02	1.7709E+03
3.7800E-02	1.9071E+03
4.0500E-02	2.0766E+03
4.3200E-02	2.1635E+03
4.5900E-02	2.3206E+03
4.8600E-02	2.4984E+03
5.1300E-02	2.6683E+03
5.4000E-02	2.8215E+03
5.6700E-02	2.9620E+03
5.9400E-02	3.1027E+03
6.2100E-02	3.2536E+03
6.4800E-02	3.4147E+03
6.7500E-02	3.5779E+03
7.0200E-02	3.7533E+03
7.2900E-02	3.8852E+03
7.5600E-02	4.0321E+03
7.8300E-02	4.1818E+03
8.1000E-02	4.3368E+03
8.3700E-02	4.4949E+03
8.6400E-02	4.6519E+03
8.9100E-02	4.8054E+03
9.1800E-02	4.9562E+03
9.4500E-02	5.1072E+03
9.7200E-02	5.2602E+03
9.9900E-02	5.4153E+03
1.0260E-01	5.5672E+03
1.0530E-01	5.7060E+03
1.0800E-01	5.8248E+03
1.1070E-01	5.9250E+03
1.1340E-01	6.0144E+03
1.1610E-01	6.1009E+03
1.1880E-01	6.1872E+03
1.2150E-01	6.2703E+03
1.2420E-01	6.3451E+03
1.2690E-01	6.4086E+03
1.2960E-01	6.4633E+03
1.3230E-01	6.5129E+03
1.3500E-01	6.5612E+03

1.3770E-01 6.6091E+03  
1.4040E-01 6.6544E+03  
1.4310E-01 6.6946E+03  
1.4580E-01 6.7290E+03  
1.4850E-01 6.7587E+03  
1.5120E-01 6.7863E+03  
1.5390E-01 6.8133E+03  
1.5660E-01 6.8397E+03  
1.5930E-01 6.8643E+03  
1.6200E-01 6.8860E+03  
1.6470E-01 6.9045E+03  
1.6740E-01 6.9208E+03  
1.7010E-01 6.9361E+03  
1.7280E-01 6.9512E+03  
1.7550E-01 6.9657E+03  
1.7820E-01 6.9790E+03  
1.8090E-01 6.9907E+03  
1.8360E-01 7.0008E+03  
1.8630E-01 7.0097E+03  
1.8900E-01 7.0183E+03  
1.9170E-01 7.0266E+03  
1.9440E-01 7.0346E+03  
1.9710E-01 7.0418E+03  
1.9980E-01 7.0481E+03  
2.0250E-01 7.0535E+03  
2.0520E-01 7.0585E+03  
2.0790E-01 7.0633E+03  
2.1060E-01 7.0679E+03  
2.1330E-01 7.0722E+03  
2.1600E-01 7.0761E+03  
2.1870E-01 7.0795E+03  
2.2140E-01 7.0825E+03  
2.2410E-01 7.0852E+03  
2.2680E-01 7.0879E+03  
2.2950E-01 7.0904E+03  
2.3220E-01 7.0928E+03  
2.3490E-01 7.0949E+03  
2.3760E-01 7.0967E+03  
2.4030E-01 7.0984E+03  
2.4300E-01 7.0999E+03  
2.4570E-01 7.1014E+03  
2.4840E-01 7.1028E+03  
2.5110E-01 7.1040E+03  
2.5380E-01 7.1052E+03  
2.5650E-01 7.1062E+03  
2.5920E-01 7.1071E+03  
2.6190E-01 7.1079E+03  
2.6460E-01 7.1087E+03  
2.6730E-01 7.1095E+03  
2.7000E-01 7.1102E+03

```

Appendix #52.
ROOT LOCUS PROGRAM.
NUMERATOR OF GH
1 DEGREE (S) 0 COEFFICIENTS ARE (CONST., FIRST)
3.99016
OPEN LOOP ZEROS
DEGREE IS ZERO, NO ROOTS

DENOMINATOR OF GH
1 DEGREE (S) 2 COEFFICIENTS ARE (CONST., FIRST)
.620385E-01 -1.06204 1
OPEN LOOP POLES
.620385E-01
1

CLOSED LOOP POLES FOR K = .01
.106706
.955332

CLOSED LOOP POLES FOR K = .02
.156667
.905372

CLOSED LOOP POLES FOR K = .05
.388067
.673972

CLOSED LOOP POLES FOR K = .1
.531019 + J .423189
.531019 - J .423169

CLOSED LOOP POLES FOR K = .2
.531019 + J .760321
.531019 - J .760321

CLOSED LOOP POLES FOR K = .5
.531019 + J 1.33234
.531019 - J 1.33234

CLOSED LOOP POLES FOR K = 1
.531019 + J 1.9417
.531019 - J 1.9417

CLOSED LOOP POLES FOR K = 2
.531019 + J 2.78574
.531019 - J 2.78574

CLOSED LOOP POLES FOR K = 5
.531019 + J 4.44194
.531019 - J 4.44194

CLOSED LOOP POLES FOR K = 10
.531019 + J 6.29933
.531019 - J 6.29933

CLOSED LOOP POLES FOR K = .11
.531019 + J .467946
.531019 - J .467946

```



```

C      Appendix #53.
C
C      PROGRAM ZINT9
C
C-----
C      FUNCTION : This program will perform an iterative calculation
C                  of a certain network.
C                  It utilizes the INTI subroutine to solve integrator cells,
C                  algebraic expressions to solve other nodes, and iterations
C                  for long path feedbacks.
C
C      Author : Leonardo Kopeloff.  Jan.85
C
C      Language : Fortran-77
C
C      Inputs : Interval, interval quantity, number of state variables,
C                number of coefficients and initial conditions.
C
C      Outputs : State vector time response.
C
C      Linking :Link with INTI subroutine .
C-----
C      VARIABLE DECLARATION.
C-----
C      INTEGER XI,KI,Z(14),X11,FLAG,PTC/0/,MXIT,C,I,PTCD,XX,XY,KX,KY
C
C      INTEGER DSTIM,DTM/1/,DISCF
C
C      DOUBLE PRECISION X(28,3),K(50),DLT,FTIM,T/0.0/
C
C      COMMON X,K,DLT,FLAG
C-----
C      OPEN THE OUTPUT FILE.
C-----
C      OPEN (UNIT=10,STATUS='NEW',NAME='SP1.DAT')
C      OPEN (UNIT=11,STATUS='NEW',NAME='SP2.DAT')
C-----
C      READ AND PRINT INPUT DATA.
C-----
C
50     FORMAT('1',5X,'ITERATIVE METHOD. TIME RESPONSE',/)
60     FORMAT(/,70('*'),/)
70     FORMAT(1P8E13.4)

```

```

80  FORMAT(5X,'COEFFICIENTS VALUES.',//)
90  FORMAT(5X,'TIME          ',7(I2,' VARIABLE  '))
    PRINT *, 'ENTER NUMBER OF VARIABLES.'
    READ *, XI
    PRINT *, 'ENTER NUMBER OF COEFFICIENTS.'
    READ *, KI
    PRINT *, 'ENTER VARIABLES INITIAL VALUES.'
    DO I=1, XI
        READ *, X(I,1)
        X(I,2)=X(I,1)
        X(I,3)=0.0
    END DO
    PRINT *, 'ENTER COEFFICIENTS VALUES.'
    DO I=1, KI
        READ *, K(I)
    END DO
    PRINT *, 'ENTER INCREMENT OF TIME AND FINAL TIME.'
    READ *, DLT, FTIM
    PRINT *, 'ENTER PRINTING TIME AND MAXIMUM ITERATION.'
    READ *, PTCD, MXIT
    PRINT *, 'ENTER DISCRETE TIME.'
    READ *, DSTIM

```

C

```

    DO I=1, XI
        Z(I)=I
    END DO

```

C

\*\*\*\*\*

C

WRITE TITLE AND INITIAL CONDITIONS.

C

\*\*\*\*\*

C

```

    WRITE(10,50)
    WRITE(10,60)
    WRITE(10,80)
    WRITE(10,70),(K(I),I=1,KI)
    WRITE(10,60)
    IF (XI.GT.7) THEN
        WRITE(11,50)
        WRITE(11,60)
        WRITE(11,80)
        WRITE(11,70),(K(I),I=1,KI)
        WRITE(11,60)
        WRITE(11,90),(Z(I),I=8,KI)
        WRITE(11,70),T,(X(I,1),I=8,XI)
        XI1=7
    ELSE
        XI1=XI
    ENDIF
    WRITE(10,90),(Z(I),I=1,XI1)
    WRITE(10,70),T,(X(I,1),I=1,XI1)

```

C

-----

C

TIME LOOP.

C

-----

C

```

    DO WHILE (T.LE.FTIM)

```

```

C=0
FLAG=0
DISCF=0
C
C*****
C
C   ITERATION LOOP.
C*****
C
      DO WHILE ((FLAG.LT.1).AND.(C.LE.MXIT))
          C=C+1
          FLAG=1
          PRINT *, 'C:', C, 'T:', T, 'MXIT', MXIT
C
      IF ((DTM.GE.DSTIM).AND.(DISCF.LT.1)) THEN
          DISCF=1
          X(2,2)=X(1,2)*K(1)-X(6,2)*K(9)
          X(3,2)=X(2,2)*K(2)-X(3,1)*K(3)
          X(4,2)=X(2,2)*K(2)+X(3,1)*K(4)-X(4,1)*K(5)
          IF (X(4,2).GT.((X(6,2)*0.008282+60.6624)/K(6))) THEN
              X(4,2)=(X(6,2)*0.008282+60.6624)/K(6)
              X(3,2)=X(3,1)
          ELSEIF (X(4,2).LT.((X(6,2)*0.008282-60.6624)/K(6))) THEN
              X(4,2)=(X(6,2)*0.008282-60.6624)/K(6)
              X(3,2)=X(3,1)
          ENDIF
          X(5,2)=X(4,1)*K(6)
      ENDIF
      XX=5
      XY=6
      KX=7
      KY=8
      CALL INTI(XX,XY,KX,KY)
      ENDDO
      IF (DTM.GE.DSTIM) THEN
          DTM=0
      END IF
      IF (C.GT.MXIT) THEN
          PRINT *, C, 'ITERATIVE LOOPS AT:', T, 'SEC.'
      END IF
      PTC=PTC+1
      T=T+DLT
      DTM=DTM+1
      IF (PTC.EQ.PTCD) THEN
          PTC=0
          IF (XI.GT.7) THEN
              WRITE(11,70), T, (X(I,2), I=8, XI)
          END IF
          WRITE(10,70), T, (X(I,2), I=1, XI)
      END IF
      DO I=1, XI
          X(I,1)=X(I,2)
      END DO
      ENDDO
      END

```



4.4100E-02	-7.5768E-04	6.3689E-01	5.0147E-02	8.2122E+00	9.82715E+02
4.5000E-02	-7.5768E-04	6.3689E-01	5.0147E-02	8.2122E+00	9.8238E+02
4.5900E-02	-1.1181E-03	6.3639E-01	4.9943E-02	8.1640E+00	9.8260E+02
4.6800E-02	-1.1181E-03	6.3639E-01	4.9943E-02	8.1640E+00	9.8268E+02
4.7700E-02	-1.1181E-03	6.3639E-01	4.9943E-02	8.1640E+00	9.8275E+02
4.8600E-02	-1.2300E-03	6.3584E-01	4.9840E-02	8.1308E+00	9.8282E+02
4.9500E-02	-1.2300E-03	6.3584E-01	4.9840E-02	8.1308E+00	9.8279E+02
5.0400E-02	-1.2300E-03	6.3530E-01	4.9810E-02	8.1308E+00	9.8277E+02
5.1300E-02	-1.1999E-03	6.3530E-01	4.9810E-02	8.1140E+00	9.8274E+02
5.2200E-02	-1.1999E-03	6.3530E-01	4.9810E-02	8.1140E+00	9.8266E+02
5.3100E-02	-1.0884E-03	6.3482E-01	4.9818E-02	8.1090E+00	9.8259E+02
5.4000E-02	-1.0884E-03	6.3482E-01	4.9818E-02	8.1090E+00	9.8252E+02
5.4900E-02	-1.0884E-03	6.3482E-01	4.9818E-02	8.1090E+00	9.8243E+02
5.5800E-02	-9.6203E-04	6.3438E-01	4.9838E-02	8.1090E+00	9.8235E+02
5.6700E-02	-9.6203E-04	6.3438E-01	4.9838E-02	8.1103E+00	9.8227E+02
5.7600E-02	-9.6203E-04	6.3438E-01	4.9838E-02	8.1103E+00	9.8220E+02
5.8500E-02	-8.5009E-04	6.3401E-01	4.9858E-02	8.1103E+00	9.8212E+02
5.9400E-02	-8.5009E-04	6.3401E-01	4.9858E-02	8.1137E+00	9.8199E+02
6.0300E-02	-8.5009E-04	6.3401E-01	4.9858E-02	8.1137E+00	9.8193E+02
6.1200E-02	-7.6117E-04	6.3367E-01	4.9870E-02	8.1168E+00	9.8188E+02
6.2100E-02	-7.6117E-04	6.3367E-01	4.9870E-02	8.1168E+00	9.8183E+02
6.3000E-02	-7.6117E-04	6.3367E-01	4.9870E-02	8.1168E+00	9.8179E+02
6.3900E-02	-6.9271E-04	6.3336E-01	4.9877E-02	8.1188E+00	9.8175E+02
6.4800E-02	-6.9271E-04	6.3336E-01	4.9877E-02	8.1188E+00	9.8171E+02
6.5700E-02	-6.9271E-04	6.3336E-01	4.9877E-02	8.1188E+00	9.8167E+02
6.6600E-02	-6.9271E-04	6.3336E-01	4.9877E-02	8.1188E+00	9.8163E+02
6.7500E-02	-6.3849E-04	6.3307E-01	4.9878E-02	8.1199E+00	9.8161E+02
6.8400E-02	-6.3849E-04	6.3307E-01	4.9878E-02	8.1199E+00	9.8158E+02
6.9300E-02	-6.3849E-04	6.3307E-01	4.9878E-02	8.1199E+00	9.8156E+02
7.0200E-02	-5.9268E-04	6.3281E-01	4.9877E-02	8.1202E+00	9.8155E+02
7.1100E-02	-5.9268E-04	6.3281E-01	4.9877E-02	8.1202E+00	9.8152E+02
7.2000E-02	-5.9268E-04	6.3281E-01	4.9877E-02	8.1202E+00	9.8150E+02
7.2900E-02	-5.5141E-04	6.3256E-01	4.9876E-02	8.1201E+00	9.8147E+02
7.3800E-02	-5.5141E-04	6.3256E-01	4.9876E-02	8.1201E+00	9.8144E+02
7.4700E-02	-5.5141E-04	6.3256E-01	4.9876E-02	8.1201E+00	9.8142E+02
7.5600E-02	-5.1269E-04	6.3233E-01	4.9875E-02	8.1198E+00	9.8139E+02
7.6500E-02	-5.1269E-04	6.3233E-01	4.9875E-02	8.1198E+00	9.8137E+02
7.7400E-02	-5.1269E-04	6.3233E-01	4.9875E-02	8.1198E+00	9.8135E+02
7.8300E-02	-4.7586E-04	6.3212E-01	4.9874E-02	8.1197E+00	9.8132E+02
7.9200E-02	-4.7586E-04	6.3212E-01	4.9874E-02	8.1197E+00	9.8130E+02
8.0100E-02	-4.7586E-04	6.3212E-01	4.9874E-02	8.1197E+00	9.8128E+02
8.1000E-02	-4.4089E-04	6.3193E-01	4.9874E-02	8.1196E+00	9.8125E+02
8.1900E-02	-4.4089E-04	6.3193E-01	4.9874E-02	8.1196E+00	9.8123E+02
8.2800E-02	-4.4089E-04	6.3193E-01	4.9874E-02	8.1196E+00	9.8121E+02
8.3700E-02	-4.0799E-04	6.3174E-01	4.9874E-02	8.1195E+00	9.8119E+02
8.4600E-02	-4.0799E-04	6.3174E-01	4.9874E-02	8.1195E+00	9.8117E+02
8.5500E-02	-4.0799E-04	6.3174E-01	4.9874E-02	8.1195E+00	9.8115E+02
8.6400E-02	-3.7731E-04	6.3158E-01	4.9874E-02	8.1195E+00	9.8113E+02
8.7300E-02	-3.7731E-04	6.3158E-01	4.9874E-02	8.1195E+00	9.8111E+02
8.8200E-02	-3.7731E-04	6.3158E-01	4.9874E-02	8.1195E+00	9.8109E+02
8.9100E-02	-3.4888E-04	6.3142E-01	4.9875E-02	8.1196E+00	9.8107E+02
9.0000E-02	-3.4888E-04	6.3142E-01	4.9875E-02	8.1196E+00	9.8106E+02



4.4100E-02	3.6300E+00	4.9392E-01	1.6352E+00	3.4772E-01	5.8357E+01	6.1746E+03
4.5000E-02	3.6300E+00	4.9392E-01	1.6352E+00	3.4772E-01	5.8357E+01	6.1746E+03
4.5900E-02	3.6300E+00	4.6043E-01	1.8408E+00	3.4849E-01	5.6600E+01	6.2169E+03
4.6800E-02	3.6300E+00	4.6043E-01	1.8408E+00	3.4849E-01	5.6600E+01	6.2169E+03
4.7700E-02	3.6300E+00	4.3742E-01	2.0337E+00	3.5354E-01	5.6735E+01	6.2470E+03
4.8600E-02	3.6300E+00	4.3742E-01	2.0337E+00	3.5354E-01	5.6735E+01	6.2470E+03
4.9500E-02	3.6300E+00	4.1566E-01	2.2212E+00	3.5865E-01	5.7556E+01	6.2803E+03
5.0400E-02	3.6300E+00	4.1566E-01	2.2212E+00	3.5865E-01	5.7556E+01	6.2803E+03
5.1300E-02	3.6300E+00	3.9188E-01	2.3960E+00	3.6213E-01	5.8388E+01	6.3204E+03
5.2200E-02	3.6300E+00	3.9188E-01	2.3960E+00	3.6213E-01	5.8388E+01	6.3204E+03
5.3100E-02	3.6300E+00	3.6611E-01	2.5592E+00	3.6385E-01	5.8888E+01	6.3511E+03
5.4000E-02	3.6300E+00	3.6611E-01	2.5592E+00	3.6385E-01	5.8888E+01	6.3511E+03
5.4900E-02	3.6300E+00	3.3956E-01	2.7108E+00	3.6429E-01	5.8955E+01	6.3852E+03
5.5800E-02	3.6300E+00	3.3956E-01	2.7108E+00	3.6429E-01	5.8955E+01	6.3852E+03
5.6700E-02	3.6300E+00	3.1385E-01	2.8508E+00	3.6406E-01	5.9234E+01	6.4194E+03
5.7600E-02	3.6300E+00	3.1385E-01	2.8508E+00	3.6406E-01	5.9234E+01	6.4194E+03
5.8500E-02	3.6300E+00	2.8957E-01	2.9800E+00	3.6363E-01	5.9306E+01	6.4536E+03
5.9400E-02	3.6300E+00	2.8957E-01	2.9800E+00	3.6363E-01	5.9306E+01	6.4536E+03
6.0300E-02	3.6300E+00	2.6720E-01	3.0992E+00	3.6322E-01	5.9270E+01	6.4877E+03
6.1200E-02	3.6300E+00	2.6720E-01	3.0992E+00	3.6322E-01	5.9270E+01	6.4877E+03
6.2100E-02	3.6300E+00	2.4677E-01	3.2093E+00	3.6294E-01	5.9198E+01	6.5203E+03
6.3000E-02	3.6300E+00	2.4677E-01	3.2093E+00	3.6294E-01	5.9198E+01	6.5203E+03
6.3900E-02	3.6300E+00	2.2811E-01	3.3110E+00	3.6278E-01	5.9132E+01	6.5516E+03
6.4800E-02	3.6300E+00	2.2811E-01	3.3110E+00	3.6278E-01	5.9132E+01	6.5516E+03
6.5700E-02	3.6300E+00	2.1100E-01	3.4052E+00	3.6270E-01	5.9086E+01	6.5811E+03
6.6600E-02	3.6300E+00	2.1100E-01	3.4052E+00	3.6270E-01	5.9086E+01	6.5811E+03
6.7500E-02	3.6300E+00	1.9525E-01	3.4923E+00	3.6266E-01	5.9050E+01	6.6089E+03
6.8400E-02	3.6300E+00	1.9525E-01	3.4923E+00	3.6266E-01	5.9050E+01	6.6089E+03
6.9300E-02	3.6300E+00	1.8070E-01	3.5729E+00	3.6245E-01	5.9047E+01	6.6352E+03
7.0200E-02	3.6300E+00	1.8070E-01	3.5729E+00	3.6245E-01	5.9047E+01	6.6352E+03
7.1100E-02	3.6300E+00	1.6723E-01	3.6475E+00	3.6264E-01	5.9041E+01	6.6598E+03
7.2000E-02	3.6300E+00	1.6723E-01	3.6475E+00	3.6264E-01	5.9041E+01	6.6598E+03
7.2900E-02	3.6300E+00	1.5474E-01	3.7165E+00	3.6262E-01	5.9041E+01	6.6831E+03
7.3800E-02	3.6300E+00	1.5474E-01	3.7165E+00	3.6262E-01	5.9041E+01	6.6831E+03
7.4700E-02	3.6300E+00	1.4317E-01	3.7804E+00	3.6256E-01	5.9038E+01	6.7051E+03
7.5600E-02	3.6300E+00	1.4317E-01	3.7804E+00	3.6256E-01	5.9038E+01	6.7051E+03
7.6500E-02	3.6300E+00	1.2811E-01	3.8475E+00	3.6262E-01	5.9050E+01	6.7259E+03
7.7400E-02	3.6300E+00	1.2811E-01	3.8475E+00	3.6262E-01	5.9050E+01	6.7259E+03
7.8300E-02	3.6300E+00	1.1525E-01	3.9233E+00	3.6266E-01	5.9047E+01	6.7456E+03
7.9200E-02	3.6300E+00	1.1525E-01	3.9233E+00	3.6266E-01	5.9047E+01	6.7456E+03
8.0100E-02	3.6300E+00	1.0707E-01	4.0000E+00	3.6284E-01	5.9041E+01	6.7644E+03
8.1000E-02	3.6300E+00	1.0707E-01	4.0000E+00	3.6284E-01	5.9041E+01	6.7644E+03
8.1900E-02	3.6300E+00	0.9525E-01	4.0729E+00	3.6264E-01	5.9041E+01	6.7828E+03
8.2800E-02	3.6300E+00	0.9525E-01	4.0729E+00	3.6264E-01	5.9041E+01	6.7828E+03
8.3700E-02	3.6300E+00	0.8475E-01	4.1500E+00	3.6262E-01	5.9038E+01	6.7990E+03
8.4600E-02	3.6300E+00	0.8475E-01	4.1500E+00	3.6262E-01	5.9038E+01	6.7990E+03
8.5500E-02	3.6300E+00	0.7474E-01	4.2275E+00	3.6258E-01	5.9034E+01	6.8151E+03
8.6400E-02	3.6300E+00	0.7474E-01	4.2275E+00	3.6258E-01	5.9034E+01	6.8151E+03
8.7300E-02	3.6300E+00	0.6474E-01	4.3050E+00	3.6259E-01	5.9034E+01	6.8304E+03
8.8200E-02	3.6300E+00	0.6474E-01	4.3050E+00	3.6259E-01	5.9034E+01	6.8304E+03
8.9100E-02	3.6300E+00	0.5474E-01	4.3825E+00	3.6256E-01	5.9030E+01	6.8449E+03
9.0000E-02	3.6300E+00	0.5474E-01	4.3825E+00	3.6256E-01	5.9030E+01	6.8449E+03