

## REFERENCES

1. Gardels, K., "Automatic Car Controls for Electronic Highways," General Motors Research Lab. Warren, Michigan, Report GMR-276, June 1960.
2. Oshima, Y. et al., "Control Systems for Automobile Driving," Proc. Tokyo IFAC Symposium, 1965, pp.347-357.
3. Cardew, K. H. F., "The Automatic Steering of Vehicles – An Experimental System Fitted to a Citroen Car," Road Research Lab., RL 340, UK, 1970.
4. Crow, J. W. and Parker, R. H., "Automatic Headway Control – An Automatic Vehicle Spacing System," SAE, No. 700086, Jan. 1970.
5. "Case Studies NAHSC," ASSHTO Quarterly, Washington, D.C., Summer 1997.
6. Rhodes, R. G. and Mulhall, B.E., Magnetic Levitation of Rail Transport: Monographs on Cryogenics, Oxford University Press, New York, NY, 1981.
7. Drew, D. R., "Evaluation of JNP High Speed Rail Proposal Between Taipei and Kaoshiung, Ministry of Communications, Republic of China, Taipei, ROC, April, 1988.
8. Drew, D. R. and Trani, A. A., "Personal Maglev – Intercity Transportation of the Future," Presentation to Westinghouse Group, Baltimore, June, 1991.
9. Pugh, A. L. III, DYNAMO User's Manual, 5<sup>th</sup> Edition, United State of America, 1980.
10. Powell, J.R., and Danby, G.R., "A 300-mph Magnetically Suspended Train," Mechanical Engineering, Vol. 89, No. 11, Nov. 1967, pp. 30-35.
11. Powell, J.R., and Danby, G.R., "Magnetically Suspended Trains: The Application of Superconductors to High-Speed Transport," Cryogenics and Industrial Gases, Oct. 1969, pp. 19-24.

12. Coffey, H.T., Chilton, F., and Hoppie, L.O., "The Feasibility of Magnetically Levitating High-Speed Ground Vehicles," SRI Report DOT-FR-10001, PB-210505, Feb. 1972.
13. Reitz, J.R. et al., "Technical Feasibility of Magnetic Levitation as Suspension System for High-Speed Ground Transportation Vehicles," Ford Report DOT-FR-10026, PB-210506, Feb. 1972.
14. Takeda, Hiroshi, "Japanese Superconducting Maglev: Present State and Future Perspective," Proc. Of the 1989 SAE Conference on Future Transportation Technology, SP-792, SAE, Aug. 1989.
15. Tsuruga, H, "Superconductive Maglev System on the Yamanashi Maglev Test Line," Proc. Of the 1992 SAE Conference on Future Transportation Technology, SP-926, SAE, Aug. 1992.
16. Katz, R.M. et al., "Performance of Magnetic Suspensions for High Speed Vehicles Operating over Flexible Guideways," Transactions of the ASME, Vol. 96, J of Dynamic Systems, Measurement, and Control, June 1974, pp. 204-212.
17. Zicha, J.H., "Civil Aspects of Maglev Design," IEEE International Conference on Maglev and Linear Drives, Publication 86CH6-4, 1986, pp. 69-87.
18. Chen, S.S., Rote, D.M., and Coffey, H.T., "A Review of Vehicle/Guideway Interactions in Maglev Systems," ASME Publication, PVP-231, 1992, pp. 81-95.
19. Gardels, K., "Automatic Car Controls for Electronic Highways," General Motors Research Lab., Warren, Michigan, Report GMR-276, June 1960.
20. Fenton, R.E., Olson, K.W., and Bender, J.G., "Advances toward the Automatic Highway," Highway Research Record, No. 344, Highway Research Board, 1971.
21. Oshima, Y. et al., "Control Systems for Automobile Driving," Proc. Tokyo IFAC Symposium, 1965, pp. 347-357.
22. Cardew, K.H.F., "The Automatic Steering of Vehicles – An Experimental System Fitted to a Citroen Car," Road Research Lab., RL 340, UK, 1970.

23. Crow, J.W. and Parker, R.H., "Automatic Headway Control – An Automatic Vehicle Spacing System," SAE, No. 700086, Jan 1970.
24. Ito, T., and Furumata, M., "An Automatic Driving System of Automobiles by Guidance Cables," SAE No. 730127, Jan 1973.
25. "Automated Highway Systems," TRW Systems Group, Redondo Beach, California, Final Report on Control C353-66 (Neg), December 1969.
26. GM Transportation Systems Division, "Final Report – Dual Mode Transit System," prepared for Urban Mass Transport. Admin., U.S. DOT, June 1974.
27. Rohr Industries, Inc., "Dual Mode Transit System," prepared for the U.S. DOT, Sept 1974, NTIS PB 237 724, Springfield, Virginia.
28. Wilson, D.G. et al., "Quadramode Transport: A Class of Control Systems," distributed at the Industrial Liaison Symposium on Urban Transportation, May 1971.
29. Shladover, S.E. et al., "Automatic Vehicle Control Developments in the PATH Program," IEEE Transactions, on Vehicular Technology, Vol. 40, No. 1, Feb 1991.
30. May, A. D., Traffic Flow Fundamentals, Prentice Hall, Englewood Cliffs, NJ, 1990.
31. Sheikholeslam, S., and Desoer, C.A., "Longitudinal Control of a Platoon of Vehicles," Proceedings IEEE workshop Automotive Application of Electron, 1988.
32. Hauksdottir, A.S., and Fenton, R.E., "Autonomous Intelligent Cruise Control," Proceedings IEEE Workshop Automotive Application of Electron, 1988.
33. Ioannou, P.A., Chien, C.C., and Hauser, J., "Autonomous intelligent Cruise Control," Proceedings of IVHS America Conference, 1992.
34. Rao, B.S.Y., and Varaiya, P., "Flow Benefits of Autonomous Intelligent Cruise Control in Mixed Manual and Automated Traffic," TRB, 72<sup>nd</sup> Annual Meeting, 1993.
35. Ha, I.J., Tugcu, A.K., and Boustany, N.M., "Feedback Linearizing Control of Vehicle Longitudinal Acceleration," IEEE Transactions on Automatic Control, Vol. 34, No. 7, July 1989.

36. Daganzo, C. F., *Fundamentals of Transportation and Traffic Operations*, Pergamon Press, Oxford, UK, 1997.
37. Wright, P. H., *Highway Engineering*, 6<sup>th</sup> Edition, John Wiley & Sons, New York, NY, 1996.
38. Siess, E. J., "Modeling Automated Highway System Guideway System Operations," Master Thesis, Virginia Tech, Blacksburg, VA, 1998.
39. Rhodes, R. G. and Mulhall, B.E., *Magnetic Levitation of Rail Transport: Monographs on Cryogenics*, Oxford University Press, New York, NY, 1981.
40. Drew, D. R. and Trani, A. A., "Personal Maglev – Intercity Transportation of the Future," Presentation to Westinghouse Group, Baltimore, June, 1991.
41. Moon, F. C., *Superconducting Levitation: Application to Bearings and Magnetic Transportation*, John Wiley & Sons, Inc., New York, NY, 1994.
42. Fisher, J.S. and Hoy, D.R., "People and Resources," *Essential of Geography and Development*, Edited by Don R. Hoy, Macmillan Publishing Co., New York, NY, 1980.
43. Sohn, D., "A Transportation System Planning Model For Sustainable Development: System Dynamics Approach to Balancing Socioeconomic and Environmental Concerns," Dissertation, Virginia Tech, Blacksburg, VA, February, 1997.
44. Bazaraa, M. S., Jarvis, J. J., and Sherali, H. D., "Linear Programming and Network Flows," 2<sup>nd</sup> Edition, John Wiley & Sons, Inc., New York, NY, 1990.
45. Tsang, C., "Validation and Technical Issue from GEOVAL-90 to GEOVAL-94," GEOVAL-94 Validation through Model Testing, Proceedings of an NEA/SKI Symposium, Paris, France, October, 1994.
46. Richardson, G. P., and Pugh, A.III, "Introduction to System Dynamics Modeling with DYNAMO," MIT Press, Cambridge, MA, 1981.
47. Drew, D.R., and Hsieh, C.H., "A System View of Development," Chang Yang Publishing Co., Taipei, 1984.

48. Drew, D.R. , “The Growth Shapers: Infrastructure Induced Development.” System Model for Decision Making, Edited by N. Sharif and P. Abdulbhan, Asian Institute of Technology, Bangkok, Thailand, 1978.
49. Wilson, G.W., “Towards a Theory of Transport and Development,” Transport and Development, Edited by B.S. Hoyle, Macmillan Publishing Co., London, UK, 1975.
50. Owen, W. “Strategy for Mobility, Brookings Institute, Washington, DC, 1964.
51. Dallaire, G. “The Story of America’s Transportation Revolution,” Civil Engineering, July, 1976.
52. Godfrey, K.A., “Interstate Highway System,” Civil Engineering, July, 1976.
53. Owen, W., “Global Transportation,” Access, No. 13 University of California, 1998.
54. “A Study of Public Work Investment in the United States,” Prepared by CONSAD Research Corporation for U.S. Department of Commerce, Washington, DC, April 1980.
55. Grigg, A.I. and Ardaman, A.K., “New Infrastructure: Civil Engineer’s Role,” Journal of Urban Planning and Development, ASCE, 1988.
56. Carson R., “The Silent Spring,”
57. Ward, B., Space Ship Earth, Hamish Hamilton Publishers, London, UK, 1966.
58. Maranto, R.A., “On Earth Day, Plenty of Cause for Optimism,” The Roanoke Times, April 22, 1996, A7.
59. Meadows, D. et al, The Limit to the Growth, Universe Books, Washington, DC, 1972.
60. Sanford, K.L., Tarr, J.A., and McNeil, S., “Crisis Perception and Policy Outcomes: Comparison between Environmental and Infrastructure Crisis,” Journal of Infrastructure Systems, The American Society of Civil Engineers, Vol.1, No. 4, 1995.
61. Veltrop, J.A., “Canon on Sustainability is Justified,” Civil Engineering, The American Society of Civil Engineers, June 1995.

62. Knox, P. *Urbanization: An Introduction to Urban Geography*, Prentice Hall, Englewood Cliffs, NJ, 1994.
63. Kaiser, E., Godschalk, E. and Chapin Jr., S., *Urban Land Use Planning*, 4<sup>th</sup> Ed., University of Illinois Press, IL, 1995.
64. Klosterman, R. *Community Analysis and Planning Techniques*, Rowman & Littlefield Publishers, Inc, MD, 1990.
65. Drew, D.R., Kim, K., and Siess, E., "Modeling the AHS Guideway-Freeway Interface," 31<sup>st</sup> International Symposium on Automotive Technology and Automation, Dusseldorf, Germany, June 7-11, 1998.
66. Harris Associates, Inc., *Evaluation of Regional Economic and Environmental Effects of Alternative Highway Systems*, U.S. Department of Transportation, Federal Highway Administration, Washington, DC, 1974.
67. Perera, M., "Framework for Classifying and Evaluating Economic Impacts Caused by a Transportation Improvement," *Proceedings of a Conference, Transportation Research Record*, No. 1274, Transportation Research Board, National Research Council, 1990.
68. Papacostas, C. and Prevedouros, P., *Transportation Engineering and Planning*, Prentice Hall, Englewood Cliffs, NJ, 1993.
69. Drew, D. R., *Traffic Flow Theory and Control*, McGraw Hill, New York, NY, 1968.
70. Hermann, R., Montroll, E. W., Potts, R. F., and Rothery, R. W., "Traffic Dynamics: Analysis of Stability in Car Following," *Operation Research*, Vol. 7, 1959.
71. Addison, P. S., and Low, D. J., "The Existence of Chaotic Behavior in a Separation Distance Centred Non-Linear Car-Following Model," *Road Vehicle Automation II: towards System Integration*, *Proceedings of the 2<sup>nd</sup> International Conference on Road Vehicle Automation*, Bolton, UK, September, 1995, pp. 171-180.
72. Addison, P. S., and Low, D. J., "Order and Chaos in the Dynamics of Vehicle Platoons," *Traffic Engineering Control*, Vol. 37 (7/8), 1996, pp.456-459.

73. Low, D. J., and Addison, P. S., "Aerial Video Filming of the Dynamical Behavior of Road Traffic," Logistics Management and Environmental Aspects/ITS/Marketing, Vehicle Finance and Leasing, Proceedings of the 31<sup>st</sup> ISATA Conference, Dusseldorf, Germany, June 1998, pp. 81-88.
74. Minderhoud, M. M., and Bovy, P. H. L., "Impact of AICC-Design on Motorway Capacity," Logistics Management and Environmental Aspects/ITS/Marketing, Vehicle Finance and Leasing, Proceedings of the 31<sup>st</sup> ISATA Conference, Dusseldorf, Germany, June 1998, pp. 381-391.
75. Yan, J., Platoon Modal Operations Under Vehicle Autonomous Adaptive Cruise Control Model, Master Thesis, Virginia Tech, Blacksburg, VA, 1994
76. Lu, M., System Dynamics Model for Testing and Evaluating Automatic Headway Control Model for Trucks Operating on Rural Highways, Doctoral Dissertation, Virginia Tech, Blacksburg, VA, 1996.
77. Yao, M., Development of Automatic Vehicle Headway Control Law and a Simulation Tool, Master Thesis, Virginia Tech, Blacksburg, VA, 1996.
78. Fancher, P., and Bareket, Z., "Evaluating Headway Control Using Range-Rate Relationships," Vehicle System Dynamics, Vol. 23, 1994, pp.575-596.
79. Drew, D. R. and Siridhara, S., "AHS Maglev System Architecture," Proceedings of the 32<sup>nd</sup> ISATA Conference, Vienna, Austria, *in progress*.
80. AASHTO, A Policy on Geometric Design of Highways and Streets 1994, American Association of State Highway and Transportation Officials, Washington, DC, 1995.
81. Boon, C. J., Kester, J. K., Hayes, W. F., and Whitten, B. T., "High Speed Rail Tilt Train Technology," Office of Research and Development, Federal Railroad Administration, U.S. Department of Transportation, Washington, DC, May 1992.
82. Kosko, B., Fuzzy Thinking: The New Science of Fuzzy Logic, Hyperion, New York, NY, 1993.