

Equivalent Estimation Design Catalog

(Updated: 3-30-05 PAP)

Catalog Notes:

- 1) The designs supplied in this catalog do not include replicates beyond those necessary to satisfy the equivalence condition. Consideration should be given to the augmentation of these base designs with whole-plot and subplot run replicates enabling pure-error estimates of the variance components.
- 2) The distances to the axial points in a central composite design are denoted by alpha and beta for the subplot and whole-plot factors, respectively.
- 3) The whole-plot (or hard-to-change) factors are denoted by \mathbf{z} 's, and the subplot (or easy-to-change) factors are denoted by \mathbf{x} 's.
- 4) The factor levels are in coded units, with zero indicating the center of the design space.
- 5) The designs are supplied in standard order.

Design Parameters

w - number of whole-plot factors (hard-to-change, HTC)

k - number of subplot factors (easy-to-change, ETC)

m - number of whole-plots

n - number of subplot runs within each whole-plot

N – total number of subplot runs (for balanced designs, $N = m*n$)

spe - subplot pure-error degrees of freedom

lof - lack-of-fit degrees of freedom

Design Name Nomenclature

<construction method><unbalanced (U)>_<parent design>_D<w><k>_<optional information>

VKM - based on Vining, Kowalski, and Montgomery (2005) construction method

MWP - based on minimum whole-plot construction method

otherwise method of construction relied on numerical verification

Some Suggested Design Selection Procedures

The selection of a design for a particular application involves many practical considerations as well as statistical criteria. The following list is provided to help in narrowing the choices among competing designs provided in this catalog.

Approach 1 - Selection by Family

- 1) Specify the parent design, for example central composite or Box-Behnken.
- 2) Specify a balanced (equal number of subplot runs within each whole-plot) or unbalanced design.
- 3) Select a construction method (see dissertation for a comparison of construction methods).
- 4) Specify the number of HTC and ETC factors to be studied with a second-order design.
- 5) Specify the maximum number of subplot runs that can be performed within one whole-plot (one setting of the HTC factors)
- 6) Review the eligible designs that meet the above criteria and make a selection based on practical considerations, such as cost, and statistical performance criteria.
- 7) Consider augmentation of the selected design to include replicated whole-plots and subplot runs.

Approach 2 - Selection by Number of Factors

- 1) Specify the number of HTC and ETC factors to be studied with a second-order design.
- 2) Specify the maximum number of subplot runs that can be performed within one whole-plot (one setting of the HTC factors)
- 3) Specify a balanced (equal number of subplot runs within each whole-plot) or unbalanced design.
- 4) Specify the parent design, for example central composite or Box-Behnken
- 5) Review the eligible designs that meet the above criteria and make a selection based on practical considerations, such as cost, and statistical performance criteria. (see dissertation for a comparison of construction methods).
- 6) Consider augmentation of the selected design to include replicated whole-plots and subplot runs.

Designs by Family

Balanced VKM Method CCD - 12 catalog entries

name	w	k	m	n	spe	lof
VKM_CCD_D11	1	1	6	2	3	3
VKM_CCD_D12	1	2	6	4	9	5
VKM_CCD_D13	1	3	8	8	39	10
VKM_CCD_D14	1	4	6	8	21	6
VKM_CCD_D21	2	1	10	2	5	5
VKM_CCD_D22	2	2	10	4	15	10
VKM_CCD_D23	2	3	12	4	21	6
VKM_CCD_D24	2	4	10	8	35	17
VKM_CCD_D31	3	1	16	2	7	10
VKM_CCD_D32	3	2	16	4	37	6
VKM_CCD_D33	3	3	18	4	27	17
VKM_CCD_D34	3	4	16	8	49	43

Balanced MWP Method CCD, alpha = beta - 12 catalog entries

name	w	k	m	n	spe	lof
MWP_CCD_D11	1	1	5	3	4	5
MWP_CCD_D12	1	2	5	5	8	7
MWP_CCD_D13	1	3	5	8	15	10
MWP_CCD_D14	1	4	5	9	16	8
MWP_CCD_D21	2	1	9	3	8	9
MWP_CCD_D22	2	2	9	5	16	14
MWP_CCD_D23	2	3	9	7	32	10
MWP_CCD_D24	2	4	9	9	32	21
MWP_CCD_D31	3	1	15	3	12	18
MWP_CCD_D32	3	2	15	5	24	30
MWP_CCD_D33	3	3	15	7	52	25
MWP_CCD_D34	3	4	15	9	48	51

Balanced MWP Method CCD, beta = 1 - 4 catalog entries

name	w	k	m	n	spe	lof
MWP_CCD_D11_B1	1	1	3	3	0	3
MWP_CCD_D12_B1	1	2	3	5	0	5
MWP_CCD_D13_B1	1	3	3	9	2	10
MWP_CCD_D14_B1	1	4	3	9	0	6

Balanced VKM Method BBD - 11 catalog entries

name	w	k	m	n	spe	lof
VKM_BBD_D12	1	2	4	4	3	3
VKM_BBD_D13	1	3	4	12	11	22
VKM_BBD_D14	1	4	4	24	55	20
VKM_BBD_D21	2	1	9	2	5	3
VKM_BBD_D22	2	2	10	4	15	10
VKM_BBD_D23	2	3	10	12	11	88
VKM_BBD_D24	2	4	10	8	31	21
VKM_BBD_D31	3	1	19	2	13	10
VKM_BBD_D32	3	2	20	4	39	20
VKM_BBD_D33	3	3	19	4	27	21
VKM_BBD_D34	3	4	21	4	27	21

Balanced MWP Method BBD - 7 catalog entries

name	w	k	m	n	spe	lof
MWP_BBD_D12	1	2	3	5	0	5
MWP_BBD_D13	1	3	3	13	12	12
MWP_BBD_D14	1	4	3	25	32	22
MWP_BBD_D21	2	1	9	2	5	3
MWP_BBD_D22	2	2	9	5	16	14
MWP_BBD_D31	3	1	19	2	13	10
MWP_BBD_D32	3	2	19	5	48	26

Balanced VKM Method SCD - 6 catalog entries

name	w	k	m	n	spe	lof
VKM_SCD_D12	1	2	6	4	13	1
VKM_SCD_D13	1	3	6	12	55	2
VKM_SCD_D22	2	2	10	4	23	2
VKM_SCD_D24	2	4	10	8	51	1
VKM_SCD_D32	3	2	16	4	42	1
VKM_SCD_D33	3	3	16	6	67	1

Balanced MWP Method SCD - 3 catalog entries

name	w	k	m	n	spe	lof
MWP_SCD_D12	1	2	3	5	4	1
MWP_SCD_D13	1	3	3	7	4	2
MWP_SCD_D14	1	4	3	9	5	1

Balanced Equiradial - 2 catalog entries

name	w	k	m	n	spe	lof
EQUIRAD_D11_HEX	1	1	5	2	3	1
EQUIRAD_D11_PENT	1	1	4	2	2	0

Balanced D-optimal - 4 catalog entries

name	w	k	m	n	spe	lof
DOPT_D11	1	1	3	3	0	3
DOPT_D12	1	2	3	4	0	2
DOPT_D13	1	3	3	6	0	3
DOPT_D14	1	4	3	8	0	3

Unbalanced VKM Method CCD - 6 catalog entries

name	w	k	m	N	spe	lof
VKMU_CCD_D12	1	2	6	22	7	5
VKMU_CCD_D14	1	4	6	42	15	6
VKMU_CCD_D22	2	2	10	38	13	10
VKMU_CCD_D24	2	4	10	74	29	17
VKMU_CCD_D32	3	2	16	62	35	6
VKMU_CCD_D34	3	4	16	122	43	43

Unbalanced VKM Method BBD - 9 catalog entries

name	w	k	m	N	spe	lof
VKMU_BBD_D12	1	2	4	14	1	3
VKMU_BBD_D13	1	3	4	38	1	22
VKMU_BBD_D14	1	4	4	74	33	20
VKMU_BBD_D22	2	2	10	38	13	10
VKMU_BBD_D23	2	3	10	110	1	88
VKMU_BBD_D24	2	4	10	74	25	21
VKMU_BBD_D32	3	2	20	78	37	20
VKMU_BBD_D33	3	3	19	74	25	21
VKMU_BBD_D34	3	4	21	82	25	21

Unbalanced MWP Method BBD - 3 catalog entries

name	w	k	m	N	spe	lof
MWPU_BBD_D12	1	2	3	13	0	3
MWPU_BBD_D13	1	3	3	25	0	10
MWPU_BBD_D14	1	4	3	41	0	20

Unbalanced MWP Method SCD - 3 catalog entries

name	w	k	m	N	spe	lof
MWPU_SCD_D12	1	2	3	11	0	1
MWPU_SCD_D13	1	3	3	17	0	2
MWPU_SCD_D14	1	4	3	22	0	1

Notz Design, Saturated - 11 catalog entries

name	w	k	m	N	spe	lof
NOTZ_SAT_D11	1	1	3	6	0	0
NOTZ_SAT_D12	1	2	3	10	0	0
NOTZ_SAT_D13	1	3	3	15	0	0
NOTZ_SAT_D14	1	4	3	21	0	0
NOTZ_SAT_D21	2	1	7	10	0	0
NOTZ_SAT_D22	2	2	7	15	0	0
NOTZ_SAT_D23	2	3	7	21	0	0
NOTZ_SAT_D24	2	4	7	28	0	0
NOTZ_SAT_D31	3	1	12	15	0	0
NOTZ_SAT_D32	3	2	12	21	0	0
NOTZ_SAT_D33	3	3	12	28	0	0

Notz Design, Augmented - 13 catalog entries

name	w	k	m	N	spe	lof
NOTZ_AUG_D11A	1	1	3	7	0	1
NOTZ_AUG_D11AC	1	1	3	7	0	1
NOTZ_AUG_D11ACF	1	1	3	8	0	2
NOTZ_AUG_D12A	1	2	3	11	0	1
NOTZ_AUG_D12ACF	1	2	3	12	0	2
NOTZ_AUG_D13A	1	3	3	16	0	1
NOTZ_AUG_D13AD	1	3	3	16	0	1
NOTZ_AUG_D21A	2	1	7	11	0	1
NOTZ_AUG_D22A	2	2	7	16	0	1
NOTZ_AUG_D22AD	2	2	7	16	0	1
NOTZ_AUG_D24A	2	4	7	30	0	2
NOTZ_AUG_D24AD	2	4	7	30	0	2
NOTZ_AUG_D31AD	3	1	12	20	0	5

Hoke Design - 36 catalog entries

Trailing number designates the parent Hoke design

name	w	k	m	N	spe	lof
HOKE_D12_1	1	2	3	10	0	0
HOKE_D12_2	1	2	3	10	0	0
HOKE_D12_3	1	2	3	10	0	0
HOKE_D12_4	1	2	3	13	0	3
HOKE_D12_5	1	2	3	13	0	3
HOKE_D12_6	1	2	3	13	0	3
HOKE_D12_7	1	2	3	13	0	3
HOKE_D13_1	1	3	3	15	0	0
HOKE_D13_2	1	3	3	15	0	0
HOKE_D13_3	1	3	3	15	0	0
HOKE_D13_4	1	3	3	19	0	4
HOKE_D13_5	1	3	3	19	0	4
HOKE_D13_6	1	3	3	19	0	4
HOKE_D13_7	1	3	3	19	0	4
HOKE_D14_1	1	4	3	21	0	0
HOKE_D14_2	1	4	3	21	0	0
HOKE_D14_3	1	4	3	21	0	0
HOKE_D14_4	1	4	3	26	0	5
HOKE_D14_5	1	4	3	26	0	5
HOKE_D14_6	1	4	3	26	0	5
HOKE_D14_7	1	4	3	26	0	5
HOKE_D21_1	2	1	7	10	0	0
HOKE_D21_2	2	1	7	10	0	0
HOKE_D21_3	2	1	7	10	0	0
HOKE_D22_1	2	2	7	15	0	0
HOKE_D22_2	2	2	7	15	0	0
HOKE_D22_3	2	2	7	15	0	0
HOKE_D23_1	2	3	7	21	0	0
HOKE_D23_2	2	3	7	21	0	0
HOKE_D23_3	2	3	7	21	0	0
HOKE_D31_1	3	1	12	15	1	0
HOKE_D31_2	3	1	12	15	0	0
HOKE_D31_3	3	1	12	15	0	0
HOKE_D32_1	3	2	12	21	1	0
HOKE_D32_2	3	2	12	21	0	0
HOKE_D32_3	3	2	12	21	0	0

Box and Draper Design - 8 catalog entries

name	w	k	m	N	spe	lof
BD_D12	1	2	4	10	0	0
BD_D13	1	3	4	15	0	0
BD_D14	1	4	4	21	0	0
BD_D21	2	1	9	10	0	0
BD_D22	2	2	9	15	0	0
BD_D23	2	3	9	21	0	0
BD_D31	3	1	14	15	0	0
BD_D32	3	2	14	21	0	0

Hybrid Design - 5 catalog entries

name	w	k	m	N	spe	lof
HYBRID_D13	1	3	5	16	0	1
HYBRID_D22	2	2	9	16	0	1
HYBRID_D24	2	4	9	28	0	0
HYBRID_D33	3	3	15	28	0	0
HYBRID_D34	3	4	15	46	0	10

Designs sorted by the Number of Factors

(within a factor group, sorted by an increasing number of whole-plots)

Balanced Designs

name	w	k	m	n	spe	lof
MWP_CCD_D11_B1	1	1	3	3	0	3
DOPT_D11	1	1	3	3	0	3
EQUIRAD_D11_PENT	1	1	4	2	2	0
MWP_CCD_D11	1	1	5	3	4	5
EQUIRAD_D11_HEX	1	1	5	2	3	1
VKM_CCD_D11	1	1	6	2	3	3
MWP_CCD_D12_B1	1	2	3	5	0	5
MWP_BBD_D12	1	2	3	5	0	5
MWP_SCD_D12	1	2	3	5	4	1
DOPT_D12	1	2	3	4	0	2
VKM_BBD_D12	1	2	4	4	3	3
MWP_CCD_D12	1	2	5	5	8	7
VKM_CCD_D12	1	2	6	4	9	5
VKM_SCD_D12	1	2	6	4	13	1
MWP_CCD_D13_B1	1	3	3	9	2	10
MWP_BBD_D13	1	3	3	13	12	12
MWP_SCD_D13	1	3	3	7	4	2
DOPT_D13	1	3	3	6	0	3
VKM_BBD_D13	1	3	4	12	11	22
MWP_CCD_D13	1	3	5	8	15	10
VKM_SCD_D13	1	3	6	12	55	2
VKM_CCD_D13	1	3	8	8	39	10
MWP_CCD_D14_B1	1	4	3	9	0	6
MWP_BBD_D14	1	4	3	25	32	22
MWP_SCD_D14	1	4	3	9	5	1
DOPT_D14	1	4	3	8	0	3
VKM_BBD_D14	1	4	4	24	55	20
MWP_CCD_D14	1	4	5	9	16	8
VKM_CCD_D14	1	4	6	8	21	6
MWP_CCD_D21	2	1	9	3	8	9
VKM_BBD_D21	2	1	9	2	5	3
MWP_BBD_D21	2	1	9	2	5	3
VKM_CCD_D21	2	1	10	2	5	5
MWP_CCD_D22	2	2	9	5	16	14
MWP_BBD_D22	2	2	9	5	16	14
VKM_CCD_D22	2	2	10	4	15	10
VKM_BBD_D22	2	2	10	4	15	10
VKM_SCD_D22	2	2	10	4	23	2
MWP_CCD_D23	2	3	9	7	32	10
VKM_BBD_D23	2	3	10	12	11	88
VKM_CCD_D23	2	3	12	4	21	6

MWP_CCD_D24	2	4	9	9	32	21
VKM_CCD_D24	2	4	10	8	35	17
VKM_BBD_D24	2	4	10	8	31	21
VKM_SCD_D24	2	4	10	8	51	1
MWP_CCD_D31	3	1	15	3	12	18
VKM_CCD_D31	3	1	16	2	7	10
VKM_BBD_D31	3	1	19	2	13	10
MWP_BBD_D31	3	1	19	2	13	10
MWP_CCD_D32	3	2	15	5	24	30
VKM_CCD_D32	3	2	16	4	37	6
VKM_SCD_D32	3	2	16	4	42	1
MWP_BBD_D32	3	2	19	5	48	26
VKM_BBD_D32	3	2	20	4	39	20
MWP_CCD_D33	3	3	15	7	52	25
VKM_SCD_D33	3	3	16	6	67	1
VKM_CCD_D33	3	3	18	4	27	17
VKM_BBD_D33	3	3	19	4	27	21
MWP_CCD_D34	3	4	15	9	48	51
VKM_CCD_D34	3	4	16	8	49	43
VKM_BBD_D34	3	4	21	4	27	21

Unbalanced Designs	w	k	m	N	spe	lof
NOTZ_SAT_D11	1	1	3	6	0	0
NOTZ_AUG_D11A	1	1	3	7	0	1
NOTZ_AUG_D11AC	1	1	3	7	0	1
NOTZ_AUG_D11ACF	1	1	3	8	0	2
MWPU_BBD_D12	1	2	3	13	0	3
MWPU_SCD_D12	1	2	3	11	0	1
NOTZ_SAT_D12	1	2	3	10	0	0
NOTZ_AUG_D12A	1	2	3	11	0	1
NOTZ_AUG_D12ACF	1	2	3	12	0	2
HOKE_D12_1	1	2	3	10	0	0
HOKE_D12_2	1	2	3	10	0	0
HOKE_D12_3	1	2	3	10	0	0
HOKE_D12_4	1	2	3	13	0	3
HOKE_D12_5	1	2	3	13	0	3
HOKE_D12_6	1	2	3	13	0	3
HOKE_D12_7	1	2	3	13	0	3
VKMU_BBD_D12	1	2	4	14	1	3
BD_D12	1	2	4	10	0	0
VKMU_CCD_D12	1	2	6	22	7	5
MWPU_BBD_D13	1	3	3	25	0	10
MWPU_SCD_D13	1	3	3	17	0	2
NOTZ_SAT_D13	1	3	3	15	0	0
NOTZ_AUG_D13A	1	3	3	16	0	1
NOTZ_AUG_D13AD	1	3	3	16	0	1
HOKE_D13_1	1	3	3	15	0	0
HOKE_D13_2	1	3	3	15	0	0
HOKE_D13_3	1	3	3	15	0	0
HOKE_D13_4	1	3	3	19	0	4
HOKE_D13_5	1	3	3	19	0	4
HOKE_D13_6	1	3	3	19	0	4
HOKE_D13_7	1	3	3	19	0	4
VKMU_BBD_D13	1	3	4	38	1	22
BD_D13	1	3	4	15	0	0
HYBRID_D13	1	3	5	16	0	1
MWPU_BBD_D14	1	4	3	41	0	20
MWPU_SCD_D14	1	4	3	22	0	1
NOTZ_SAT_D14	1	4	3	21	0	0
HOKE_D14_1	1	4	3	21	0	0
HOKE_D14_2	1	4	3	21	0	0
HOKE_D14_3	1	4	3	21	0	0
HOKE_D14_4	1	4	3	26	0	5
HOKE_D14_5	1	4	3	26	0	5
HOKE_D14_6	1	4	3	26	0	5
HOKE_D14_7	1	4	3	26	0	5
VKMU_BBD_D14	1	4	4	74	33	20
BD_D14	1	4	4	21	0	0
VKMU_CCD_D14	1	4	6	42	15	6

NOTZ_SAT_D21	2	1	7	10	0	0
NOTZ_AUG_D21A	2	1	7	11	0	1
HOKE_D21_1	2	1	7	10	0	0
HOKE_D21_2	2	1	7	10	0	0
HOKE_D21_3	2	1	7	10	0	0
BD_D21	2	1	9	10	0	0
NOTZ_SAT_D22	2	2	7	15	0	0
NOTZ_AUG_D22A	2	2	7	16	0	1
NOTZ_AUG_D22AD	2	2	7	16	0	1
HOKE_D22_1	2	2	7	15	0	0
HOKE_D22_2	2	2	7	15	0	0
HOKE_D22_3	2	2	7	15	0	0
BD_D22	2	2	9	15	0	0
HYBRID_D22	2	2	9	16	0	1
VKMU_CCD_D22	2	2	10	38	13	10
VKMU_BBD_D22	2	2	10	38	13	10
NOTZ_SAT_D23	2	3	7	21	0	0
HOKE_D23_1	2	3	7	21	0	0
HOKE_D23_2	2	3	7	21	0	0
HOKE_D23_3	2	3	7	21	0	0
BD_D23	2	3	9	21	0	0
VKMU_BBD_D23	2	3	10	110	1	88
NOTZ_SAT_D24	2	4	7	28	0	0
NOTZ_AUG_D24A	2	4	7	30	0	2
NOTZ_AUG_D24AD	2	4	7	30	0	2
HYBRID_D24	2	4	9	28	0	0
VKMU_CCD_D24	2	4	10	74	29	17
VKMU_BBD_D24	2	4	10	74	25	21
NOTZ_SAT_D31	3	1	12	15	0	0
NOTZ_AUG_D31AD	3	1	12	20	0	5
HOKE_D31_1	3	1	12	15	1	0
HOKE_D31_2	3	1	12	15	0	0
HOKE_D31_3	3	1	12	15	0	0
BD_D31	3	1	14	15	0	0
NOTZ_SAT_D32	3	2	12	21	0	0
HOKE_D32_1	3	2	12	21	1	0
HOKE_D32_2	3	2	12	21	0	0
HOKE_D32_3	3	2	12	21	0	0
BD_D32	3	2	14	21	0	0
VKMU_CCD_D32	3	2	16	62	35	6
VKMU_BBD_D32	3	2	20	78	37	20
NOTZ_SAT_D33	3	3	12	28	0	0
HYBRID_D33	3	3	15	28	0	0
VKMU_BBD_D33	3	3	19	74	25	21

HYBRID_D34	3	4	15	46	0	10
VKMU_CCD_D34	3	4	16	122	43	43
VKMU_BBD_D34	3	4	21	82	25	21

Updated: 03/26/05

axial point distances are unrestricted

w	k	m	n	N
1	1	6	2	12

WP	z1	x1
1	-1	-1
	-1	1
2	1	-1
	1	1
3	-1	0
	-1	0
4	1	0
	1	0
5	0	-1
	0	1
6	0	0
	0	0

Updated: 03/26/05

axial point distances are unrestricted

	w	k	m	n	N
	1	2	6	4	24
WP	z1	x1	x2		
1	-1	-1	-1		
	-1	1	-1		
	-1	-1	1		
	-1	1	1		
2	1	-1	-1		
	1	1	-1		
	1	-1	1		
	1	1	1		
3	-1	0	0		
	-1	0	0		
	-1	0	0		
	-1	0	0		
4	1	0	0		
	1	0	0		
	1	0	0		
	1	0	0		
5	0	-1	0		
	0	1	0		
	0	0	-1		
	0	0	1		
6	0	0	0		
	0	0	0		
	0	0	0		
	0	0	0		

Updated: 03/26/05

axial point distances are unrestricted

	w	k	m	n	N
	2	1	10	2	20
WP	z1	z2	x1		
1	-1	-1	-1		
	-1	-1	1		
2	-1	1	-1		
	-1	1	1		
3	1	-1	-1		
	1	-1	1		
4	1	1	-1		
	1	1	1		
5	-1	0	0		
	-1	0	0		
6	1	0	0		
	1	0	0		
7	0	-1	0		
	0	-1	0		
8	0	1	0		
	0	1	0		
9	0	0	-1		
	0	0	1		
10	0	0	0		
	0	0	0		

Updated: 03/26/05

axial point distances are unrestricted

	w	k	m	n	N
	2	2	10	4	40
WP	z1	z2	x1	x2	
1	-1	-1	-1	-1	-1
	-1	-1	1	-1	-1
	-1	-1	-1	1	1
	-1	-1	1	1	1
2	1	-1	-1	-1	-1
	1	-1	1	-1	-1
	1	-1	-1	1	1
	1	-1	1	1	1
3	-1	1	-1	-1	-1
	-1	1	1	-1	-1
	-1	1	-1	1	1
	-1	1	1	1	1
4	1	1	-1	-1	-1
	1	1	1	-1	-1
	1	1	-1	1	1
	1	1	1	1	1
5	-1	0	0	0	0
	-1	0	0	0	0
	-1	0	0	0	0
	-1	0	0	0	0
6	1	0	0	0	0
	1	0	0	0	0
	1	0	0	0	0
	1	0	0	0	0
7	0	-1	0	0	0
	0	-1	0	0	0
	0	-1	0	0	0
	0	-1	0	0	0
8	0	1	0	0	0
	0	1	0	0	0
	0	1	0	0	0
	0	1	0	0	0
9	0	0	-1	0	0
	0	0	1	0	0
	0	0	0	-1	-1
	0	0	0	0	1
10	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

Updated: 03/26/05

axial point distances are unrestricted

	w	k	m	n	N	
	2	3	12	4	48	
WP	z1	z2	x1	x2	x3	
1	-1	-1	-1	-1	1	
	-1	-1	1	-1	-1	
	-1	-1	-1	1	-1	
	-1	-1	1	1	1	
2	1	-1	-1	-1	-1	
	1	-1	1	-1	1	
	1	-1	-1	1	1	
	1	-1	1	1	-1	
3	-1	1	-1	-1	-1	
	-1	1	1	-1	1	
	-1	1	-1	1	1	
	-1	1	1	1	-1	
4	1	1	-1	-1	1	
	1	1	1	-1	-1	
	1	1	-1	1	-1	
	1	1	1	1	1	
5	-1	0	0	0	0	
	-1	0	0	0	0	
	-1	0	0	0	0	
	-1	0	0	0	0	
6	1	0	0	0	0	
	1	0	0	0	0	
	1	0	0	0	0	
	1	0	0	0	0	
7	0	-1	0	0	0	
	0	-1	0	0	0	
	0	-1	0	0	0	
	0	-1	0	0	0	
8	0	1	0	0	0	
	0	1	0	0	0	
	0	1	0	0	0	
	0	1	0	0	0	
9	0	0	-1	0	0	
	0	0	1	0	0	
	0	0	-1	0	0	
	0	0	1	0	0	
10	0	0	0	-1	0	
	0	0	0	1	0	
	0	0	0	-1	0	
	0	0	0	1	0	
11	0	0	0	0	-1	
	0	0	0	0	1	
	0	0	0	0	-1	
	0	0	0	0	1	
12	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	

Updated: 03/26/05

axial point distances are unrestricted

	w	k	m	n	N
	3	1	16	2	32
WP	z1	z2	z3	x1	
1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	1
2	-1	-1	1	1	-1
	-1	-1	1	1	1
3	-1	1	-1	-1	-1
	-1	1	-1	-1	1
4	-1	1	1	1	-1
	-1	1	1	1	1
5	1	-1	-1	-1	-1
	1	-1	-1	-1	1
6	1	-1	1	1	-1
	1	-1	1	1	1
7	1	1	-1	-1	-1
	1	1	-1	-1	1
8	1	1	1	1	-1
	1	1	1	1	1
9	-1	0	0	0	0
	-1	0	0	0	0
10	1	0	0	0	0
	1	0	0	0	0
11	0	-1	0	0	0
	0	-1	0	0	0
12	0	1	0	0	0
	0	1	0	0	0
13	0	0	-1	-1	0
	0	0	-1	-1	0
14	0	0	1	1	0
	0	0	1	1	0
15	0	0	0	0	-1
	0	0	0	0	1
16	0	0	0	0	0
	0	0	0	0	0

Updated: 03/26/05

axial point distances are unrestricted

	w 3	k 2	m 16	n 4	N 64	
WP	z1	z2	z3	x1	x2	
1	-1	-1	-1	-1	-1	1
	-1	-1	-1	1	1	-1
	-1	-1	-1	-1	1	1
	-1	-1	-1	1	1	-1
2	1	-1	-1	-1	-1	-1
	1	-1	-1	1	1	1
	1	-1	-1	-1	-1	-1
	1	-1	-1	1	1	1
3	-1	1	-1	-1	-1	-1
	-1	1	-1	1	1	1
	-1	1	-1	-1	-1	-1
	-1	1	-1	1	1	1
4	1	1	-1	-1	-1	1
	1	1	-1	1	1	-1
	1	1	-1	-1	-1	1
	1	1	-1	1	1	-1
5	-1	-1	1	-1	-1	-1
	-1	-1	1	1	1	1
	-1	-1	1	-1	-1	-1
	-1	-1	1	1	1	1
6	1	-1	1	-1	-1	1
	1	-1	1	1	1	-1
	1	-1	1	-1	-1	1
	1	-1	1	1	1	-1
7	-1	1	1	-1	-1	1
	-1	1	1	1	1	-1
	-1	1	1	-1	-1	1
	-1	1	1	1	1	-1
8	1	1	1	-1	-1	-1
	1	1	1	1	1	1
	1	1	1	-1	-1	-1
	1	1	1	1	1	1
9	-1	0	0	0	0	0
	-1	0	0	0	0	0
	-1	0	0	0	0	0
	-1	0	0	0	0	0
10	1	0	0	0	0	0
	1	0	0	0	0	0
	1	0	0	0	0	0
	1	0	0	0	0	0
11	0	-1	0	0	0	0
	0	-1	0	0	0	0
	0	-1	0	0	0	0
	0	-1	0	0	0	0
12	0	1	0	0	0	0
	0	1	0	0	0	0
	0	1	0	0	0	0
	0	1	0	0	0	0
13	0	0	-1	0	0	0
	0	0	-1	0	0	0
	0	0	-1	0	0	0
	0	0	-1	0	0	0
14	0	0	1	0	0	0
	0	0	1	0	0	0
	0	0	1	0	0	0
	0	0	1	0	0	0
15	0	0	0	-1	0	0
	0	0	0	1	0	0
	0	0	0	0	-1	0
	0	0	0	0	0	1
16	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0

Updated: 03/26/05

axial point distances are unrestricted

	w 3	k 3	m 18	n 4	N 72		
WP	z1	z2	z3	x1	x2	x3	
1	-1	-1	-1	-1	-1	-1	-1
	-1	-1	-1	1	1	-1	-1
	-1	-1	-1	1	-1	1	1
	-1	-1	-1	-1	1	1	1
2	1	-1	-1	1	-1	-1	-1
	1	-1	-1	-1	1	-1	-1
	1	-1	-1	-1	-1	1	1
	1	-1	-1	1	1	1	1
3	-1	1	-1	1	-1	-1	-1
	-1	1	-1	-1	1	-1	-1
	-1	1	-1	-1	-1	1	1
	-1	1	-1	1	1	1	1
4	1	1	-1	-1	-1	-1	-1
	1	1	-1	1	1	1	-1
	1	1	-1	1	-1	1	1
	1	1	-1	-1	1	1	1
5	-1	-1	1	1	1	-1	-1
	-1	-1	1	-1	1	-1	-1
	-1	-1	1	-1	-1	1	1
	-1	-1	1	1	1	1	1
6	1	-1	1	-1	-1	-1	-1
	1	-1	1	1	1	-1	-1
	1	-1	1	1	-1	1	1
	1	-1	1	-1	1	1	1
7	-1	1	1	-1	-1	-1	-1
	-1	1	1	1	1	1	-1
	-1	1	1	1	-1	1	1
	-1	1	1	-1	1	1	1
8	1	1	1	1	1	-1	-1
	1	1	1	-1	1	-1	-1
	1	1	1	-1	-1	1	1
	1	1	1	1	1	1	1
9	-1	0	0	0	0	0	0
	-1	0	0	0	0	0	0
	-1	0	0	0	0	0	0
	-1	0	0	0	0	0	0
10	1	0	0	0	0	0	0
	1	0	0	0	0	0	0
	1	0	0	0	0	0	0
	1	0	0	0	0	0	0
11	0	1	0	0	0	0	0
	0	1	0	0	0	0	0
	0	1	0	0	0	0	0
	0	1	0	0	0	0	0
12	0	-1	0	0	0	0	0
	0	-1	0	0	0	0	0
	0	-1	0	0	0	0	0
	0	-1	0	0	0	0	0
13	0	0	1	0	0	0	0
	0	0	1	0	0	0	0
	0	0	1	0	0	0	0
	0	0	1	0	0	0	0
14	0	0	-1	0	0	0	0
	0	0	-1	0	0	0	0
	0	0	-1	0	0	0	0
	0	0	-1	0	0	0	0
15	0	0	0	-1	0	0	0
	0	0	0	1	0	0	0
	0	0	0	-1	0	0	0
	0	0	0	1	0	0	0
16	0	0	0	0	-1	0	0
	0	0	0	0	0	1	0
	0	0	0	0	-1	0	0
	0	0	0	0	1	0	0
17	0	0	0	0	0	0	-1
	0	0	0	0	0	0	1
	0	0	0	0	0	0	-1
	0	0	0	0	0	0	1
18	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Updated: 03/26/05

alpha=beta version, axial point distances are restricted
subplot centers can be added one-by-one

w	k	m	n	N
1	1	5	3	15

WP	z1	x1
1	-1.41421	0
	-1.41421	0
	-1.41421	0
2	-1	-1
	-1	1
	-1	0
3	0	-1.41421
	0	1.414214
	0	0
4	1	-1
	1	1
	1	0
5	1.414214	0
	1.414214	0
	1.414214	0

Updated: 03/26/05

alpha=beta version, axial point distances are restricted
 subplot centers can be added one-by-one

	w	k	m	n	N
	1	2	5	5	25

WP	z1	x1	x2
1	-1.73205	0	0
	-1.73205	0	0
	-1.73205	0	0
	-1.73205	0	0
	-1.73205	0	0
2	-1	-1	-1
	-1	-1	1
	-1	1	-1
	-1	1	1
	-1	0	0
3	0	-1.73205	0
	0	1.732051	0
	0	0	-1.73205
	0	0	1.732051
	0	0	0
4	1	-1	-1
	1	-1	1
	1	1	-1
	1	1	1
	1	0	0
5	1.732051	0	0
	1.732051	0	0
	1.732051	0	0
	1.732051	0	0
	1.732051	0	0

Updated: 03/26/05

alpha=beta version, axial point distances are restricted
 subplot centers can be added one-by-one

	w	k	m	n	N
	2	1	9	3	27

WP	z1	z2	x1
1	-1.73205	0	0
	-1.73205	0	0
	-1.73205	0	0
2	-1	-1	-1
	-1	-1	1
	-1	-1	0
3	-1	1	-1
	-1	1	1
	-1	1	0
4	0	-1.73205	0
	0	-1.73205	0
	0	-1.73205	0
5	0	0	-1.73205
	0	0	1.732051
	0	0	0
6	0	1.732051	0
	0	1.732051	0
	0	1.732051	0
7	1	-1	-1
	1	-1	1
	1	-1	0
8	1	1	-1
	1	1	1
	1	1	0
9	1.732051	0	0
	1.732051	0	0
	1.732051	0	0

Updated: 03/26/05

alpha=beta version, axial point distances are restricted
 subplot centers can be added one-by-one

	w	k	m	n	N
	2	2	9	5	45
WP	z1	z2	x1	x2	
1	-2	0	0	0	0
	-2	0	0	0	0
	-2	0	0	0	0
	-2	0	0	0	0
	-2	0	0	0	0
2	-1	-1	-1	-1	-1
	-1	-1	-1	1	1
	-1	-1	1	-1	-1
	-1	-1	1	1	1
	-1	-1	0	0	0
3	-1	1	-1	-1	-1
	-1	1	-1	1	1
	-1	1	1	-1	-1
	-1	1	1	1	1
	-1	1	0	0	0
4	0	-2	0	0	0
	0	-2	0	0	0
	0	-2	0	0	0
	0	-2	0	0	0
	0	-2	0	0	0
5	0	0	-2	0	0
	0	0	2	0	0
	0	0	0	-2	-2
	0	0	0	2	2
	0	0	0	0	0
6	0	2	0	0	0
	0	2	0	0	0
	0	2	0	0	0
	0	2	0	0	0
	0	2	0	0	0
7	1	-1	-1	-1	-1
	1	-1	-1	1	1
	1	-1	1	-1	-1
	1	-1	1	1	1
	1	-1	0	0	0
8	1	1	-1	-1	-1
	1	1	-1	1	1
	1	1	1	-1	-1
	1	1	1	1	1
	1	1	0	0	0
9	2	0	0	0	0
	2	0	0	0	0
	2	0	0	0	0
	2	0	0	0	0
	2	0	0	0	0

Updated: 03/26/05

alpha=beta version, axial point distances are restricted
 subplot centers can be added one-by-one

	w	k	m	n	N
	3	1	15	3	45
WP	z1	z2	z3	x1	
1	-2	0	0	0	0
	-2	0	0	0	0
	-2	0	0	0	0
2	-1	-1	-1	-1	-1
	-1	-1	-1	-1	1
	-1	-1	-1	-1	0
3	-1	-1	1	1	-1
	-1	-1	1	1	1
	-1	-1	1	1	0
4	-1	1	-1	-1	-1
	-1	1	-1	-1	1
	-1	1	-1	-1	0
5	-1	1	1	1	-1
	-1	1	1	1	1
	-1	1	1	1	0
6	0	-2	0	0	0
	0	-2	0	0	0
	0	-2	0	0	0
7	0	0	-2	-2	0
	0	0	-2	-2	0
	0	0	-2	-2	0
8	0	0	0	0	-2
	0	0	0	0	2
	0	0	0	0	0
9	0	0	2	2	0
	0	0	2	2	0
	0	0	2	2	0
10	0	2	0	0	0
	0	2	0	0	0
	0	2	0	0	0
11	1	-1	-1	-1	-1
	1	-1	-1	-1	1
	1	-1	-1	-1	0
12	1	-1	1	1	-1
	1	-1	1	1	1
	1	-1	1	1	0
13	1	1	-1	-1	-1
	1	1	-1	-1	1
	1	1	-1	-1	0
14	1	1	1	1	-1
	1	1	1	1	1
	1	1	1	1	0
15	2	0	0	0	0
	2	0	0	0	0
	2	0	0	0	0

Updated: 03/26/05

alpha=beta version, axial point distances are restricted
subplot centers can be added one-by-one

	w	k	m	n	N
	3	2	15	5	75
WP	z1	z2	z3	x1	x2
1	-2.23607	0	0	0	0
	-2.23607	0	0	0	0
	-2.23607	0	0	0	0
	-2.23607	0	0	0	0
	-2.23607	0	0	0	0
2	-1	-1	-1	-1	-1
	-1	-1	-1	-1	1
	-1	-1	-1	1	-1
	-1	-1	-1	1	1
	-1	-1	-1	0	0
3	-1	-1	1	-1	-1
	-1	-1	1	-1	1
	-1	-1	1	1	-1
	-1	-1	1	1	1
	-1	-1	1	0	0
4	-1	1	-1	-1	-1
	-1	1	-1	-1	1
	-1	1	-1	1	-1
	-1	1	-1	1	1
	-1	1	-1	0	0
5	-1	1	1	-1	-1
	-1	1	1	-1	1
	-1	1	1	1	-1
	-1	1	1	1	1
	-1	1	1	0	0
6	0	-2.23607	0	0	0
	0	-2.23607	0	0	0
	0	-2.23607	0	0	0
	0	-2.23607	0	0	0
	0	-2.23607	0	0	0
7	0	0	-2.23607	0	0
	0	0	-2.23607	0	0
	0	0	-2.23607	0	0
	0	0	-2.23607	0	0
	0	0	-2.23607	0	0
8	0	0	0	-2.23607	0
	0	0	0	2.236068	0
	0	0	0	0	-2.23607
	0	0	0	0	2.236068
	0	0	0	0	0
9	0	0	2.236068	0	0
	0	0	2.236068	0	0
	0	0	2.236068	0	0
	0	0	2.236068	0	0
	0	0	2.236068	0	0
10	0	2.236068	0	0	0
	0	2.236068	0	0	0
	0	2.236068	0	0	0
	0	2.236068	0	0	0
	0	2.236068	0	0	0
11	1	-1	-1	-1	-1
	1	-1	-1	-1	1
	1	-1	-1	1	-1
	1	-1	-1	1	1
	1	-1	-1	0	0
12	1	-1	1	-1	-1
	1	-1	1	-1	1
	1	-1	1	1	-1
	1	-1	1	1	1
	1	-1	1	0	0
13	1	1	-1	-1	-1
	1	1	-1	-1	1
	1	1	-1	1	-1
	1	1	-1	1	1
	1	1	-1	0	0
14	1	1	1	-1	-1
	1	1	1	-1	1
	1	1	1	1	-1
	1	1	1	1	1
	1	1	1	0	0
15	2.236068	0	0	0	0
	2.236068	0	0	0	0
	2.236068	0	0	0	0
	2.236068	0	0	0	0
	2.236068	0	0	0	0

Updated: 03/26/05

beta=1, alpha is unrestricted

subplot centers may be added one-by-one

w	k	m	n	N
1	1	3	3	9

WP	z1	x1
1	-1	-1
	-1	1
	-1	0
2	0	-1
	0	1
	0	0
3	1	-1
	1	1
	1	0

Updated: 03/26/05

beta=1, alpha is unrestricted

subplot centers may be added one-by-one

w	k	m	n	N
1	2	3	5	15

WP	z1	x1	x2
1	-1	-1	-1
	-1	-1	1
	-1	1	-1
	-1	1	1
	-1	0	0
2	0	-1	0
	0	1	0
	0	0	-1
	0	0	1
	0	0	0
3	1	-1	-1
	1	-1	1
	1	1	-1
	1	1	1
	1	0	0

Updated: 03/26/05

beta=1, alpha is unrestricted

subplot centers may be added one-by-one

	w	k	m	n	N
	1	3	3	9	27
WP	z1	x1	x2	x3	
1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	1
	-1	-1	-1	1	-1
	-1	-1	-1	1	1
	-1	1	-1	-1	-1
	-1	1	-1	-1	1
	-1	1	1	1	-1
	-1	1	1	1	1
	-1	0	0	0	0
2	0	-1	0	0	0
	0	1	0	0	0
	0	0	-1	0	0
	0	0	1	0	0
	0	0	0	0	-1
	0	0	0	0	1
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
3	1	-1	-1	-1	-1
	1	-1	-1	-1	1
	1	-1	1	-1	-1
	1	-1	1	1	1
	1	1	-1	-1	-1
	1	1	-1	-1	1
	1	1	1	1	-1
	1	1	1	1	1
	1	0	0	0	0

Updated: 03/26/05

beta=1, alpha is unrestricted

subplot centers may be added one-by-one

	w	k	m	n	N
	1	4	3	9	27

WP	z1	x1	x2	x3	x4
1	-1	-1	-1	-1	1
	-1	-1	-1	1	-1
	-1	-1	1	-1	-1
	-1	-1	1	1	1
	-1	1	-1	-1	-1
	-1	1	1	1	1
	-1	1	1	-1	1
	-1	1	1	1	-1
	-1	0	0	0	0
2	0	-1	0	0	0
	0	1	0	0	0
	0	0	-1	0	0
	0	0	1	0	0
	0	0	0	-1	0
	0	0	0	1	0
	0	0	0	0	-1
	0	0	0	0	1
	0	0	0	0	0
3	1	-1	-1	-1	-1
	1	-1	-1	1	1
	1	-1	1	-1	1
	1	-1	1	1	-1
	1	1	-1	-1	1
	1	1	-1	1	-1
	1	1	1	-1	-1
	1	1	1	1	1
	1	0	0	0	0

Updated: 03/28/05

	w	k	m	n	N
	1	2	4	4	16
WP	z1	x1	x2		
1	-1	-1	0		
	-1	1	0		
	-1	0	-1		
	-1	0	1		
2	0	-1	-1		
	0	1	-1		
	0	-1	1		
	0	1	1		
3	1	-1	0		
	1	1	0		
	1	0	-1		
	1	0	1		
4	0	0	0		
	0	0	0		
	0	0	0		
	0	0	0		

Updated: 03/28/05

	w	k	m	n	N
	2	1	9	2	18
WP	z1	z2	x1		
1	-1	-1	0		
	-1	-1	0		
2	-1	0	-1		
	-1	0	1		
3	-1	1	0		
	-1	1	0		
4	0	-1	-1		
	0	-1	1		
5	0	1	1		
	0	1	-1		
6	1	-1	0		
	1	-1	0		
7	1	0	-1		
	1	0	1		
8	1	1	0		
	1	1	0		
9	0	0	0		
	0	0	0		

Updated: 03/28/05

	w	k	m	n	N
	2	2	10	4	40
WP	z1	z2	x1	x2	
1	-1	-1	0	0	
	-1	-1	0	0	
	-1	-1	0	0	
	-1	-1	0	0	
2	-1	0	0	-1	
	-1	0	0	1	
	-1	0	-1	0	
	-1	0	1	0	
3	-1	1	0	0	
	-1	1	0	0	
	-1	1	0	0	
	-1	1	0	0	
4	0	-1	-1	0	
	0	-1	1	0	
	0	-1	0	-1	
	0	-1	0	1	
5	0	0	-1	-1	
	0	0	1	-1	
	0	0	-1	1	
	0	0	1	1	
6	0	1	-1	0	
	0	1	1	0	
	0	1	0	-1	
	0	1	0	1	
7	1	-1	0	0	
	1	-1	0	0	
	1	-1	0	0	
	1	-1	0	0	
8	1	0	0	-1	
	1	0	0	1	
	1	0	-1	0	
	1	0	1	0	
9	1	1	0	0	
	1	1	0	0	
	1	1	0	0	
	1	1	0	0	
10	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	

Updated: 03/28/05

	w	k	m	n	N
	3	1	19	2	38
WP	z1	z2	z3	x1	
1	-1	-1	0	0	0
	-1	-1	0	0	0
2	-1	0	-1	0	0
	-1	0	-1	0	0
3	-1	0	0	-1	-1
	-1	0	0	1	1
4	-1	0	1	0	0
	-1	0	1	0	0
5	-1	1	0	0	0
	-1	1	0	0	0
6	0	-1	-1	0	0
	0	-1	-1	0	0
7	0	-1	0	-1	-1
	0	-1	0	1	1
8	0	-1	1	0	0
	0	-1	1	0	0
9	0	0	-1	-1	-1
	0	0	-1	1	1
10	0	0	1	-1	-1
	0	0	1	1	1
11	0	1	-1	0	0
	0	1	-1	0	0
12	0	1	0	-1	-1
	0	1	0	1	1
13	0	1	1	0	0
	0	1	1	0	0
14	1	-1	0	0	0
	1	-1	0	0	0
15	1	0	-1	0	0
	1	0	-1	0	0
16	1	0	0	-1	-1
	1	0	0	1	1
17	1	0	1	0	0
	1	0	1	0	0
18	1	1	0	0	0
	1	1	0	0	0
19	0	0	0	0	0
	0	0	0	0	0

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	w 3	k 2	m 20	n 4	N 80	
WP	z1	z2	z3	x1	x2	
1	-1	-1	0	0	0	0
	-1	-1	0	0	0	0
	-1	-1	0	0	0	0
	-1	-1	0	0	0	0
2	-1	0	-1	0	0	0
	-1	0	-1	0	0	0
	-1	0	-1	0	0	0
	-1	0	-1	0	0	0
3	-1	0	0	-1	0	0
	-1	0	0	1	0	0
	-1	0	0	0	0	-1
	-1	0	0	0	0	1
4	-1	0	1	0	0	0
	-1	0	1	0	0	0
	-1	0	1	0	0	0
	-1	0	1	0	0	0
5	-1	1	0	0	0	0
	-1	1	0	0	0	0
	-1	1	0	0	0	0
	-1	1	0	0	0	0
6	0	-1	-1	0	0	0
	0	-1	-1	0	0	0
	0	-1	-1	0	0	0
	0	-1	-1	0	0	0
7	0	-1	0	0	-1	0
	0	-1	0	0	0	1
	0	-1	0	-1	0	0
	0	-1	0	1	0	0
8	0	-1	1	0	0	0
	0	-1	1	0	0	0
	0	-1	1	0	0	0
	0	-1	1	0	0	0
9	0	0	-1	-1	0	0
	0	0	-1	1	0	0
	0	0	-1	0	-1	0
	0	0	-1	0	0	1
10	0	0	0	-1	-1	0
	0	0	0	1	-1	0
	0	0	0	-1	1	0
	0	0	0	1	1	0
11	0	0	1	-1	0	0
	0	0	1	1	0	0
	0	0	1	0	-1	0
	0	0	1	0	0	1
12	0	1	-1	0	0	0
	0	1	-1	0	0	0
	0	1	-1	0	0	0
	0	1	-1	0	0	0
13	0	1	0	0	-1	0
	0	1	0	0	0	1
	0	1	0	-1	0	0
	0	1	0	1	0	0
14	0	1	1	0	0	0
	0	1	1	0	0	0
	0	1	1	0	0	0
	0	1	1	0	0	0
15	1	-1	0	0	0	0
	1	-1	0	0	0	0
	1	-1	0	0	0	0
	1	-1	0	0	0	0
16	1	0	-1	0	0	0
	1	0	-1	0	0	0
	1	0	-1	0	0	0
	1	0	-1	0	0	0
17	1	0	0	-1	0	0
	1	0	0	1	0	0
	1	0	0	0	-1	0
	1	0	0	0	0	1
18	1	0	1	0	0	0
	1	0	1	0	0	0
	1	0	1	0	0	0
	1	0	1	0	0	0
19	1	1	0	0	0	0
	1	1	0	0	0	0
	1	1	0	0	0	0
	1	1	0	0	0	0
20	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0

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	w 3	k 3	m 19	n 4	N 76		
WP	z1	z2	z3	x1	x2	x3	
1	-1	-1	0	-1	0	0	0
	-1	-1	0	1	0	0	0
	-1	-1	0	-1	0	0	0
	-1	-1	0	1	0	0	0
2	-1	0	-1	0	0	-1	-1
	-1	0	-1	0	0	0	1
	-1	0	-1	0	0	0	-1
	-1	0	-1	0	0	0	1
3	-1	0	0	-1	-1	0	0
	-1	0	0	1	-1	0	0
	-1	0	0	-1	1	0	0
	-1	0	0	1	1	0	0
4	-1	0	1	0	0	-1	-1
	-1	0	1	0	0	0	1
	-1	0	1	0	0	0	-1
	-1	0	1	0	0	0	1
5	-1	1	0	-1	0	0	0
	-1	1	0	1	0	0	0
	-1	1	0	-1	0	0	0
	-1	1	0	1	0	0	0
6	0	-1	-1	0	-1	0	0
	0	-1	-1	0	1	0	0
	0	-1	-1	0	-1	0	0
	0	-1	-1	0	1	0	0
7	0	-1	0	0	-1	-1	-1
	0	-1	0	0	1	-1	-1
	0	-1	0	0	-1	1	1
	0	-1	0	0	1	1	1
8	0	-1	1	0	-1	0	0
	0	-1	1	0	1	0	0
	0	-1	1	0	-1	0	0
	0	-1	1	0	1	0	0
9	0	0	-1	-1	0	-1	-1
	0	0	-1	1	0	-1	-1
	0	0	-1	-1	0	1	1
	0	0	-1	1	0	1	1
10	0	0	1	-1	0	-1	-1
	0	0	1	1	0	-1	-1
	0	0	1	-1	0	1	1
	0	0	1	1	0	1	1
11	0	1	-1	0	-1	0	0
	0	1	-1	0	1	0	0
	0	1	-1	0	-1	0	0
	0	1	-1	0	1	0	0
12	0	1	0	0	-1	-1	-1
	0	1	0	0	1	-1	-1
	0	1	0	0	-1	1	1
	0	1	0	0	1	1	1
13	0	1	1	0	-1	0	0
	0	1	1	0	1	0	0
	0	1	1	0	-1	0	0
	0	1	1	0	1	0	0
14	1	-1	0	-1	0	0	0
	1	-1	0	1	0	0	0
	1	-1	0	-1	0	0	0
	1	-1	0	1	0	0	0
15	1	0	-1	0	0	-1	-1
	1	0	-1	0	0	0	1
	1	0	-1	0	0	0	-1
	1	0	-1	0	0	0	1
16	1	0	0	-1	-1	0	0
	1	0	0	1	-1	0	0
	1	0	0	-1	1	0	0
	1	0	0	1	1	0	0
17	1	0	1	0	0	-1	-1
	1	0	1	0	0	0	1
	1	0	1	0	0	0	-1
	1	0	1	0	0	0	1
18	1	1	0	-1	0	0	0
	1	1	0	1	0	0	0
	1	1	0	-1	0	0	0
	1	1	0	1	0	0	0
19	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Updated: 03/28/05

subplot centers can be added one-by-one

w	k	m	n	N
1	2	3	5	15
WP	z1	x1	x2	
1	-1	-1	0	
	-1	1	0	
	-1	0	-1	
	-1	0	1	
	-1	0	0	
2	0	-1	-1	
	0	-1	1	
	0	1	-1	
	0	1	1	
	0	0	0	
3	1	-1	0	
	1	1	0	
	1	0	-1	
	1	0	1	
	1	0	0	

Updated: 03/28/05

	w	k	m	n	N
	2	1	9	2	18
WP	z1	z2	x1		
1	-1	-1	0		
	-1	-1	0		
2	-1	0	-1		
	-1	0	1		
3	-1	1	0		
	-1	1	0		
4	0	-1	-1		
	0	-1	1		
5	0	0	0		
	0	0	0		
6	0	1	-1		
	0	1	1		
7	1	-1	0		
	1	-1	0		
8	1	0	-1		
	1	0	1		
9	1	1	0		
	1	1	0		

Updated: 03/28/05

subplot centers can be added one-by-one

	w	k	m	n	N
	2	2	9	5	45
WP	z1	z2	x1	x2	
1	-1	-1	0	0	0
	-1	-1	0	0	0
	-1	-1	0	0	0
	-1	-1	0	0	0
	-1	-1	0	0	0
2	-1	0	0	-1	-1
	-1	0	0	1	0
	-1	0	-1	0	0
	-1	0	1	0	0
	-1	0	0	0	0
3	-1	1	0	0	0
	-1	1	0	0	0
	-1	1	0	0	0
	-1	1	0	0	0
	-1	1	0	0	0
4	0	-1	-1	0	0
	0	-1	1	0	0
	0	-1	0	-1	-1
	0	-1	0	1	1
	0	-1	0	0	0
5	0	0	-1	-1	-1
	0	0	-1	1	1
	0	0	1	-1	-1
	0	0	1	1	1
	0	0	0	0	0
6	0	1	-1	0	0
	0	1	1	0	0
	0	1	0	-1	-1
	0	1	0	1	1
	0	1	0	0	0
7	1	-1	0	0	0
	1	-1	0	0	0
	1	-1	0	0	0
	1	-1	0	0	0
	1	-1	0	0	0
8	1	0	0	-1	-1
	1	0	0	1	1
	1	0	-1	0	0
	1	0	1	0	0
	1	0	0	0	0
9	1	1	0	0	0
	1	1	0	0	0
	1	1	0	0	0
	1	1	0	0	0
	1	1	0	0	0

Updated: 03/28/05

	w	k	m	n	N
	3	1	19	2	38
WP	z1	z2	z3	x1	
1	-1	-1	0	0	
	-1	-1	0	0	
2	-1	0	-1	0	
	-1	0	-1	0	
3	-1	0	0	-1	
	-1	0	0	1	
4	-1	0	1	0	
	-1	0	1	0	
5	-1	1	0	0	
	-1	1	0	0	
6	0	-1	-1	0	
	0	-1	-1	0	
7	0	-1	0	-1	
	0	-1	0	1	
8	0	-1	1	0	
	0	-1	1	0	
9	0	0	-1	-1	
	0	0	-1	1	
10	0	0	0	0	
	0	0	0	0	
11	0	0	1	-1	
	0	0	1	1	
12	0	1	-1	0	
	0	1	-1	0	
13	0	1	0	-1	
	0	1	0	1	
14	0	1	1	0	
	0	1	1	0	
15	1	-1	0	0	
	1	-1	0	0	
16	1	0	-1	0	
	1	0	-1	0	
17	1	0	0	-1	
	1	0	0	1	
18	1	0	1	0	
	1	0	1	0	
19	1	1	0	0	
	1	1	0	0	

Updated: 03/28/05

subplot centers can be added one-by-one

	w	k	m	n	N	
	3	2	19	5	95	
WP	z1	z2	z3	x1	x2	
1	-1	-1	0	0	0	0
	-1	-1	0	0	0	0
	-1	-1	0	0	0	0
	-1	-1	0	0	0	0
	-1	-1	0	0	0	0
2	-1	0	-1	0	0	0
	-1	0	-1	0	0	0
	-1	0	-1	0	0	0
	-1	0	-1	0	0	0
	-1	0	-1	0	0	0
3	-1	0	0	-1	0	0
	-1	0	0	1	0	0
	-1	0	0	0	-1	0
	-1	0	0	0	0	1
	-1	0	0	0	0	0
4	-1	0	1	0	0	0
	-1	0	1	0	0	0
	-1	0	1	0	0	0
	-1	0	1	0	0	0
	-1	0	1	0	0	0
5	-1	1	0	0	0	0
	-1	1	0	0	0	0
	-1	1	0	0	0	0
	-1	1	0	0	0	0
	-1	1	0	0	0	0
6	0	-1	-1	0	0	0
	0	-1	-1	0	0	0
	0	-1	-1	0	0	0
	0	-1	-1	0	0	0
	0	-1	-1	0	0	0
7	0	-1	0	0	-1	0
	0	-1	0	0	1	0
	0	-1	0	-1	0	0
	0	-1	0	1	0	0
	0	-1	0	0	0	0
8	0	-1	1	0	0	0
	0	-1	1	0	0	0
	0	-1	1	0	0	0
	0	-1	1	0	0	0
	0	-1	1	0	0	0
9	0	0	-1	-1	0	0
	0	0	-1	1	0	0
	0	0	-1	0	-1	0
	0	0	-1	0	0	1
	0	0	-1	0	0	0
10	0	0	0	-1	-1	0
	0	0	0	-1	1	0
	0	0	0	1	-1	0
	0	0	0	1	1	0
	0	0	0	0	0	0
11	0	0	1	-1	0	0
	0	0	1	1	0	0
	0	0	1	0	-1	0
	0	0	1	0	1	0
	0	0	1	0	0	0
12	0	1	-1	0	0	0
	0	1	-1	0	0	0
	0	1	-1	0	0	0
	0	1	-1	0	0	0
	0	1	-1	0	0	0
13	0	1	0	0	-1	0
	0	1	0	0	1	0
	0	1	0	-1	0	0
	0	1	0	1	0	0
	0	1	0	0	0	0
14	0	1	1	0	0	0
	0	1	1	0	0	0
	0	1	1	0	0	0
	0	1	1	0	0	0
	0	1	1	0	0	0
15	1	-1	0	0	0	0
	1	-1	0	0	0	0
	1	-1	0	0	0	0
	1	-1	0	0	0	0
	1	-1	0	0	0	0
16	1	0	-1	0	0	0
	1	0	-1	0	0	0
	1	0	-1	0	0	0
	1	0	-1	0	0	0
	1	0	-1	0	0	0
17	1	0	0	-1	0	0
	1	0	0	1	0	0
	1	0	0	0	-1	0
	1	0	0	0	0	1
	1	0	0	0	0	0
18	1	0	1	0	0	0
	1	0	1	0	0	0
	1	0	1	0	0	0
	1	0	1	0	0	0
	1	0	1	0	0	0
19	1	1	0	0	0	0
	1	1	0	0	0	0
	1	1	0	0	0	0
	1	1	0	0	0	0
	1	1	0	0	0	0

Updated: 03/28/05

subplot centers can be added one-by-one

	w	k	m	n	N
	1	1	3	3	9
WP	z1	x1			
1	-1	-1			
	-1	1			
	-1	0			
2	0	-1			
	0	1			
	0	0			
3	1	-1			
	1	1			
	1	0			

Updated: 03/28/05

subplot centers can be added one-by-one

	w	k	m	n	N
	1	2	3	4	12
WP	z1	x1	x2		
1	0	-1	0		
	0	0	-1		
	0	1	0		
	0	1	1		
2	1	-1	-1		
	1	1	-1		
	1	-1	1		
	1	1	1		
3	-1	0	0		
	-1	1	-1		
	-1	-1	-1		
	-1	-1	1		

Updated: 03/28/05

subplot centers can be added one-by-one

w	k	m	n	N
1	3	3	6	18
WP	z1	x1	x2	x3
1	0	1	0	0
	0	1	1	1
	0	-1	-1	1
	0	-1	1	-1
	0	1	-1	-1
	0	0	1	0
2	1	-1	-1	0
	1	-1	0	-1
	1	1	-1	1
	1	-1	1	1
	1	1	1	-1
	1	0	-1	-1
3	-1	-1	-1	-1
	-1	1	-1	1
	-1	-1	1	1
	-1	1	1	-1
	-1	1	1	1
	-1	0	0	-1

Updated: 03/28/05

subplot centers can be added one-by-one

w	k	m	n	N	
1	4	3	8	24	
WP	z1	x1	x2	x3	x4
1	1	1	1	-1	-1
	1	1	1	1	1
	1	-1	-1	1	1
	1	-1	1	1	-1
	1	-1	0	0	0
	1	1	-1	-1	1
	1	-1	1	-1	1
	1	1	-1	1	-1
2	-1	-1	-1	1	-1
	-1	1	-1	-1	-1
	-1	0	1	1	1
	-1	1	-1	1	1
	-1	1	1	-1	1
	-1	-1	-1	-1	1
	-1	-1	1	-1	-1
	-1	1	1	1	-1
3	0	1	1	0	-1
	0	0	0	1	-1
	0	-1	1	0	1
	0	0	1	-1	0
	0	-1	0	1	1
	0	-1	-1	-1	-1
	0	0	-1	0	1
	0	-1	1	1	0

Updated: 03/28/05

	w	k	m	n	N
	1	2	6	4	24
WP	z1	x1	x2		
1	-1	0	0		
	-1	0	0		
	-1	0	0		
	-1	0	0		
2	-1	1	1		
	-1	1	1		
	-1	-1	-1		
	-1	-1	-1		
3	0	-1	0		
	0	1	0		
	0	0	-1		
	0	0	1		
4	1	1	-1		
	1	1	-1		
	1	-1	1		
	1	-1	1		
5	1	0	0		
	1	0	0		
	1	0	0		
	1	0	0		
6	0	0	0		
	0	0	0		
	0	0	0		
	0	0	0		

Updated: 03/28/05

	w	k	m	n	N
	2	2	10	4	40
WP	z1	z2	x1	x2	
1	-1.68	0	0	0	0
	-1.68	0	0	0	0
	-1.68	0	0	0	0
	-1.68	0	0	0	0
2	-1	-1	1	-1	-1
	-1	-1	1	-1	-1
	-1	-1	-1	-1	-1
	-1	-1	-1	-1	-1
3	-1	1	-1	1	1
	-1	1	-1	1	1
	-1	1	1	1	1
	-1	1	1	1	1
4	0	-1.68	0	0	0
	0	-1.68	0	0	0
	0	-1.68	0	0	0
	0	-1.68	0	0	0
5	0	0	-1.68	0	0
	0	0	1.68	0	0
	0	0	0	-1.68	0
	0	0	0	1.68	0
6	0	1.68	0	0	0
	0	1.68	0	0	0
	0	1.68	0	0	0
	0	1.68	0	0	0
7	1	-1	1	1	1
	1	-1	1	1	1
	1	-1	-1	1	1
	1	-1	-1	1	1
8	1	1	1	-1	-1
	1	1	1	-1	-1
	1	1	-1	-1	-1
	1	1	-1	-1	-1
9	1.68	0	0	0	0
	1.68	0	0	0	0
	1.68	0	0	0	0
	1.68	0	0	0	0
10	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

Updated: 03/28/05

	w 3	k 2	m 16	n 4	N 64	
WP	z1	z2	z3	x1	x2	
1	-1.82	0	0	0	0	0
	-1.82	0	0	0	0	0
	-1.82	0	0	0	0	0
	-1.82	0	0	0	0	0
2	-1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	-1	-1
3	-1	-1	1	1	1	1
	-1	-1	1	1	1	1
	-1	-1	1	1	1	1
	-1	-1	1	1	1	1
4	-1	1	-1	1	1	1
	-1	1	-1	1	1	1
	-1	1	-1	1	1	1
	-1	1	-1	1	1	1
5	-1	1	1	-1	1	1
	-1	1	1	-1	1	1
	-1	1	1	1	1	-1
	-1	1	1	1	1	-1
6	0	-1.82	0	0	0	0
	0	-1.82	0	0	0	0
	0	-1.82	0	0	0	0
	0	-1.82	0	0	0	0
7	0	0	-1.82	0	0	0
	0	0	-1.82	0	0	0
	0	0	-1.82	0	0	0
	0	0	-1.82	0	0	0
8	0	0	0	-1.82	0	0
	0	0	0	1.82	0	0
	0	0	0	0	-1.82	0
	0	0	0	0	0	1.82
9	0	0	1.82	0	0	0
	0	0	1.82	0	0	0
	0	0	1.82	0	0	0
	0	0	1.82	0	0	0
10	0	1.82	0	0	0	0
	0	1.82	0	0	0	0
	0	1.82	0	0	0	0
	0	1.82	0	0	0	0
11	1	-1	-1	1	1	1
	1	-1	-1	1	1	1
	1	-1	-1	1	1	1
	1	-1	-1	1	1	1
12	1	-1	1	1	1	-1
	1	-1	1	1	1	-1
	1	-1	1	-1	1	1
	1	-1	1	-1	1	1
13	1	1	-1	1	1	-1
	1	1	-1	1	1	-1
	1	1	-1	-1	1	1
	1	1	-1	-1	1	1
14	1	1	1	-1	-1	-1
	1	1	1	-1	-1	-1
	1	1	1	-1	-1	-1
	1	1	1	-1	-1	-1
15	1.82	0	0	0	0	0
	1.82	0	0	0	0	0
	1.82	0	0	0	0	0
	1.82	0	0	0	0	0
16	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0

Updated: 03/28/05

	w	k	m	n	N
	1	2	3	5	15
WP	z1	x1	x2		
1	-1	1	1	1	
	-1	-1	-1	-1	
	-1	0	0	0	
	-1	0	0	0	
	-1	0	0	0	
2	0	-1	-1	0	
	0	1	1	0	
	0	0	0	-1	
	0	0	0	1	
	0	0	0	0	
3	1	1	1	-1	
	1	-1	-1	1	
	1	0	0	0	
	1	0	0	0	
	1	0	0	0	

Updated: 03/28/05

	w	k	m	n	N
	1	3	3	7	21
WP	z1	x1	x2	x3	
1	-1	1	-1	1	
	-1	-1	1	-1	
	-1	1	1	1	
	-1	-1	-1	-1	
	-1	0	0	0	
	-1	0	0	0	
	-1	0	0	0	
2	0	-1	0	0	
	0	1	0	0	
	0	0	-1	0	
	0	0	1	0	
	0	0	0	-1	
	0	0	0	1	
	0	0	0	0	
3	1	1	1	-1	
	1	1	-1	-1	
	1	-1	1	1	
	1	-1	-1	1	
	1	0	0	0	
	1	0	0	0	
	1	0	0	0	

MWP_SCD_D14

Updated: 03/28/05

	w	k	m	n	N	
	1	4	3	9	27	
WP	z1	x1	x2	x3	x4	
1	-1	1	1	-1	1	
	-1	-1	1	1	1	
	-1	1	-1	1	1	
	-1	1	1	1	-1	
	-1	-1	-1	-1	-1	
	-1	0	0	0	0	
	-1	0	0	0	0	
	-1	0	0	0	0	
	-1	0	0	0	0	
2	0	-1	0	0	0	
	0	1	0	0	0	
	0	0	-1	0	0	
	0	0	1	0	0	
	0	0	0	-1	0	
	0	0	0	1	0	
	0	0	0	0	-1	
	0	0	0	0	1	
	0	0	0	0	0	
3	1	1	-1	1	-1	
	1	-1	1	1	-1	
	1	1	1	-1	-1	
	1	1	-1	-1	1	
	1	-1	-1	1	1	
	1	-1	1	-1	1	
	1	0	0	0	0	
	1	0	0	0	0	
	1	0	0	0	0	

EQUIRAD_D11_HEX

Updated: 03/28/05

	w	k	m	n	N
	1	1	5	2	10
WP	z1	x1			
1	-1	0			
	-1	0			
2	-0.5	0.87			
	-0.5	-0.87			
3	0	0			
	0	0			
4	0.5	0.87			
	0.5	-0.87			
5	1	0			
	1	0			

EQUIRAD_D11_PENT

Updated: 03/28/05

w	k	m	n	N
1	1	4	2	8

WP	z1	x1
1	-0.81	0.59
	-0.81	-0.59
2	0	0
	0	0
3	0.31	0.95
	0.31	-0.95
4	1	0
	1	0

Updated: 03/28/05

alpha=beta version, axial point distances are restricted

	w	k	m	N
	1	2	6	22
WP	z1	x1	x2	
1	-1	-1	-1	
	-1	1	-1	
	-1	-1	1	
	-1	1	1	
2	1	-1	-1	
	1	1	-1	
	1	-1	1	
	1	1	1	
3	-1.73205	0	0	
	-1.73205	0	0	
	-1.73205	0	0	
	-1.73205	0	0	
4	1.732051	0	0	
	1.732051	0	0	
	1.732051	0	0	
	1.732051	0	0	
5	0	-1.73205	0	
	0	1.732051	0	
	0	0	-1.73205	
	0	0	1.732051	
6	0	0	0	
	0	0	0	

Updated: 03/28/05

alpha=beta version, axial point distances are restricted

	w	k	m	N		
	1	4	6	42		
WP	z1	x1	x2	x3	x4	
1	-1	-1	-1	-1	1	
	-1	1	-1	-1	-1	
	-1	-1	1	-1	-1	
	-1	1	1	-1	1	
	-1	-1	-1	1	-1	
	-1	1	-1	1	1	
	-1	-1	1	1	1	
	-1	1	1	1	-1	
2	1	-1	-1	-1	-1	
	1	1	-1	-1	1	
	1	-1	1	-1	1	
	1	1	1	-1	-1	
	1	-1	-1	1	1	
	1	1	-1	1	-1	
	1	-1	1	1	-1	
	1	1	1	1	1	
3	-2.23607	0	0	0	0	
	-2.23607	0	0	0	0	
	-2.23607	0	0	0	0	
	-2.23607	0	0	0	0	
	-2.23607	0	0	0	0	
	-2.23607	0	0	0	0	
	-2.23607	0	0	0	0	
	-2.23607	0	0	0	0	
4	2.236068	0	0	0	0	
	2.236068	0	0	0	0	
	2.236068	0	0	0	0	
	2.236068	0	0	0	0	
	2.236068	0	0	0	0	
	2.236068	0	0	0	0	
	2.236068	0	0	0	0	
	2.236068	0	0	0	0	
5	0	-2.23607	0	0	0	
	0	2.236068	0	0	0	
	0	0	-2.23607	0	0	
	0	0	2.236068	0	0	
	0	0	0	-2.23607	0	
	0	0	0	2.236068	0	
	0	0	0	0	-2.23607	
	0	0	0	0	2.236068	
6	0	0	0	0	0	
	0	0	0	0	0	

Updated: 03/28/05

alpha=beta version, axial point distances are restricted

	w	k	m	N	
	2	2	10	38	
WP	z1	z2	x1	x2	
1	-1	-1	-1	-1	-1
	-1	-1	1	-1	-1
	-1	-1	-1	1	1
	-1	-1	1	1	1
2	1	-1	-1	-1	-1
	1	-1	1	-1	-1
	1	-1	-1	1	1
	1	-1	1	1	1
3	-1	1	-1	-1	-1
	-1	1	1	-1	-1
	-1	1	-1	1	1
	-1	1	1	1	1
4	1	1	-1	-1	-1
	1	1	1	-1	-1
	1	1	-1	1	1
	1	1	1	1	1
5	-2	0	0	0	0
	-2	0	0	0	0
	-2	0	0	0	0
	-2	0	0	0	0
6	2	0	0	0	0
	2	0	0	0	0
	2	0	0	0	0
	2	0	0	0	0
7	0	-2	0	0	0
	0	-2	0	0	0
	0	-2	0	0	0
	0	-2	0	0	0
8	0	2	0	0	0
	0	2	0	0	0
	0	2	0	0	0
	0	2	0	0	0
9	0	0	-2	0	0
	0	0	2	0	0
	0	0	0	-2	-2
	0	0	0	0	2
10	0	0	0	0	0
	0	0	0	0	0

Updated: 03/28/05

alpha=beta version, axial point distances are restricted

	w 2	k 4	m 10	N 74			
WP	z1	z2	x1	x2	x3	x4	
1	-1	-1	-1	-1	-1	-1	-1
	-1	-1	1	1	-1	-1	-1
	-1	-1	1	-1	1	-1	-1
	-1	-1	-1	1	1	1	-1
	-1	-1	1	-1	-1	1	1
	-1	-1	-1	1	-1	1	1
	-1	-1	-1	-1	1	1	1
	-1	-1	1	1	1	1	1
2	1	-1	1	-1	-1	-1	-1
	1	-1	-1	1	-1	-1	-1
	1	-1	-1	-1	1	1	-1
	1	-1	1	1	1	1	-1
	1	-1	-1	-1	-1	-1	1
	1	-1	1	1	-1	1	1
	1	-1	1	-1	1	1	1
	1	-1	-1	1	1	1	1
3	-1	1	1	-1	-1	-1	-1
	-1	1	-1	1	-1	-1	-1
	-1	1	-1	-1	1	1	-1
	-1	1	1	1	1	1	-1
	-1	1	-1	-1	-1	1	1
	-1	1	1	1	-1	1	1
	-1	1	1	-1	1	1	1
	-1	1	-1	1	1	1	1
4	1	1	-1	-1	-1	-1	-1
	1	1	1	1	-1	-1	-1
	1	1	1	-1	1	1	-1
	1	1	-1	1	1	1	-1
	1	1	1	-1	-1	-1	1
	1	1	-1	1	-1	1	1
	1	1	-1	-1	1	1	1
	1	1	1	1	1	1	1
5	-2.44949	0	0	0	0	0	0
	-2.44949	0	0	0	0	0	0
	-2.44949	0	0	0	0	0	0
	-2.44949	0	0	0	0	0	0
	-2.44949	0	0	0	0	0	0
	-2.44949	0	0	0	0	0	0
	-2.44949	0	0	0	0	0	0
	-2.44949	0	0	0	0	0	0
6	2.44949	0	0	0	0	0	0
	2.44949	0	0	0	0	0	0
	2.44949	0	0	0	0	0	0
	2.44949	0	0	0	0	0	0
	2.44949	0	0	0	0	0	0
	2.44949	0	0	0	0	0	0
	2.44949	0	0	0	0	0	0
	2.44949	0	0	0	0	0	0
	2.44949	0	0	0	0	0	0
7	0	-2.44949	0	0	0	0	0
	0	-2.44949	0	0	0	0	0
	0	-2.44949	0	0	0	0	0
	0	-2.44949	0	0	0	0	0
	0	-2.44949	0	0	0	0	0
	0	-2.44949	0	0	0	0	0
	0	-2.44949	0	0	0	0	0
	0	-2.44949	0	0	0	0	0
	0	-2.44949	0	0	0	0	0
8	0	2.44949	0	0	0	0	0
	0	2.44949	0	0	0	0	0
	0	2.44949	0	0	0	0	0
	0	2.44949	0	0	0	0	0
	0	2.44949	0	0	0	0	0
	0	2.44949	0	0	0	0	0
	0	2.44949	0	0	0	0	0
	0	2.44949	0	0	0	0	0
	0	2.44949	0	0	0	0	0
9	0	0	-2.44949	0	0	0	0
	0	0	2.44949	0	0	0	0
	0	0	0	-2.44949	0	0	0
	0	0	0	2.44949	0	0	0
	0	0	0	0	-2.44949	0	0
	0	0	0	0	2.44949	0	0
	0	0	0	0	0	-2.44949	0
	0	0	0	0	0	2.44949	0
10	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

Updated: 03/28/05

alpha=beta version, axial point distances are restricted

	w	k	m	N		
	3	2	16	62		
WP	z1	z2	z3	x1	x2	
1	-1	-1	-1	-1	-1	1
	-1	-1	-1	1	-1	
	-1	-1	-1	-1	1	
	-1	-1	-1	1	-1	
2	1	-1	-1	-1	-1	-1
	1	-1	-1	1	1	
	1	-1	-1	-1	-1	
	1	-1	-1	1	1	
3	-1	1	-1	-1	-1	-1
	-1	1	-1	1	1	
	-1	1	-1	-1	-1	
	-1	1	-1	1	1	
4	1	1	-1	-1	-1	1
	1	1	-1	1	-1	
	1	1	-1	-1	1	
	1	1	-1	1	-1	
5	-1	-1	1	-1	-1	-1
	-1	-1	1	1	1	
	-1	-1	1	-1	-1	
	-1	-1	1	1	1	
6	1	-1	1	-1	-1	1
	1	-1	1	1	-1	
	1	-1	1	-1	1	
	1	-1	1	1	-1	
7	-1	1	1	-1	-1	1
	-1	1	1	1	-1	
	-1	1	1	-1	1	
	-1	1	1	1	-1	
8	1	1	1	-1	-1	-1
	1	1	1	1	1	
	1	1	1	-1	-1	
	1	1	1	1	1	
9	-2.23607	0	0	0	0	0
	-2.23607	0	0	0	0	0
	-2.23607	0	0	0	0	0
	-2.23607	0	0	0	0	0
10	2.236068	0	0	0	0	0
	2.236068	0	0	0	0	0
	2.236068	0	0	0	0	0
	2.236068	0	0	0	0	0
11	0	-2.23607	0	0	0	0
	0	-2.23607	0	0	0	0
	0	-2.23607	0	0	0	0
	0	-2.23607	0	0	0	0
12	0	2.236068	0	0	0	0
	0	2.236068	0	0	0	0
	0	2.236068	0	0	0	0
	0	2.236068	0	0	0	0
13	0	0	-2.23607	0	0	0
	0	0	-2.23607	0	0	0
	0	0	-2.23607	0	0	0
	0	0	-2.23607	0	0	0
14	0	0	2.236068	0	0	0
	0	0	2.236068	0	0	0
	0	0	2.236068	0	0	0
	0	0	2.236068	0	0	0
15	0	0	0	-2.23607	0	0
	0	0	0	2.236068	0	0
	0	0	0	0	-2.23607	0
	0	0	0	0	2.236068	0
16	0	0	0	0	0	0
	0	0	0	0	0	0

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w	k	m	N				
3	4	16	122				
WP	z1	z2	z3	x1	x2	x3	x4
1	-1	-1	-1	-1	-1	-1	1
	-1	-1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	-1	-1	-1
	-1	-1	-1	1	1	-1	1
	-1	-1	-1	-1	-1	1	-1
	-1	-1	-1	1	-1	1	1
	-1	-1	-1	-1	1	1	1
	-1	-1	-1	1	1	1	-1
2	1	-1	-1	-1	-1	-1	-1
	1	-1	-1	1	-1	-1	1
	1	-1	-1	-1	1	-1	1
	1	-1	-1	1	1	-1	-1
	1	-1	-1	-1	-1	1	1
	1	-1	-1	1	-1	1	-1
	1	-1	-1	-1	1	1	-1
	1	-1	-1	1	1	1	1
3	-1	1	-1	-1	-1	-1	-1
	-1	1	-1	1	-1	-1	1
	-1	1	-1	-1	1	-1	-1
	-1	1	-1	1	1	-1	-1
	-1	1	-1	-1	-1	1	1
	-1	1	-1	1	-1	1	-1
	-1	1	-1	-1	1	1	-1
	-1	1	-1	1	1	1	1
4	1	1	-1	-1	-1	-1	1
	1	1	-1	1	-1	-1	-1
	1	1	-1	-1	1	-1	-1
	1	1	-1	1	1	-1	1
	1	1	-1	-1	-1	1	-1
	1	1	-1	1	-1	1	1
	1	1	-1	-1	1	1	1
	1	1	-1	1	1	1	-1
5	-1	-1	1	-1	-1	-1	-1
	-1	-1	1	1	-1	-1	1
	-1	-1	1	-1	1	-1	1
	-1	-1	1	1	1	-1	-1
	-1	-1	1	-1	-1	1	1
	-1	-1	1	1	-1	1	-1
	-1	-1	1	-1	1	1	-1
	-1	-1	1	1	1	1	1
6	1	-1	1	-1	-1	-1	1
	1	-1	1	1	-1	-1	-1
	1	-1	1	-1	1	-1	-1
	1	-1	1	1	1	-1	1
	1	-1	1	-1	-1	1	-1
	1	-1	1	1	-1	1	1
	1	-1	1	-1	1	1	1
	1	-1	1	1	1	1	-1
7	-1	1	1	-1	-1	-1	-1
	-1	1	1	1	-1	-1	-1
	-1	1	1	-1	1	-1	-1
	-1	1	1	1	1	-1	1
	-1	1	1	-1	-1	1	-1
	-1	1	1	1	-1	1	1
	-1	1	1	-1	1	1	1
	-1	1	1	1	1	1	-1
8	1	1	1	-1	-1	-1	-1
	1	1	1	1	-1	-1	1
	1	1	1	-1	1	-1	-1
	1	1	1	1	1	-1	-1
	1	1	1	-1	-1	1	-1
	1	1	1	1	-1	1	-1
	1	1	1	-1	1	1	-1
	1	1	1	1	1	1	1
9	-2.64575	0	0	0	0	0	0
	-2.64575	0	0	0	0	0	0
	-2.64575	0	0	0	0	0	0
	-2.64575	0	0	0	0	0	0
	-2.64575	0	0	0	0	0	0
	-2.64575	0	0	0	0	0	0
	-2.64575	0	0	0	0	0	0
	-2.64575	0	0	0	0	0	0
10	2.645751	0	0	0	0	0	0
	2.645751	0	0	0	0	0	0
	2.645751	0	0	0	0	0	0
	2.645751	0	0	0	0	0	0
	2.645751	0	0	0	0	0	0
	2.645751	0	0	0	0	0	0
	2.645751	0	0	0	0	0	0
	2.645751	0	0	0	0	0	0
11	0	-2.64575	0	0	0	0	0
	0	-2.64575	0	0	0	0	0
	0	-2.64575	0	0	0	0	0
	0	-2.64575	0	0	0	0	0
	0	-2.64575	0	0	0	0	0
	0	-2.64575	0	0	0	0	0
	0	-2.64575	0	0	0	0	0
	0	-2.64575	0	0	0	0	0
12	0	2.645751	0	0	0	0	0
	0	2.645751	0	0	0	0	0
	0	2.645751	0	0	0	0	0
	0	2.645751	0	0	0	0	0
	0	2.645751	0	0	0	0	0
	0	2.645751	0	0	0	0	0
	0	2.645751	0	0	0	0	0
	0	2.645751	0	0	0	0	0
13	0	0	-2.64575	0	0	0	0
	0	0	-2.64575	0	0	0	0
	0	0	-2.64575	0	0	0	0
	0	0	-2.64575	0	0	0	0
	0	0	-2.64575	0	0	0	0
	0	0	-2.64575	0	0	0	0
	0	0	-2.64575	0	0	0	0
	0	0	-2.64575	0	0	0	0
14	0	0	2.645751	0	0	0	0
	0	0	2.645751	0	0	0	0
	0	0	2.645751	0	0	0	0
	0	0	2.645751	0	0	0	0
	0	0	2.645751	0	0	0	0
	0	0	2.645751	0	0	0	0
	0	0	2.645751	0	0	0	0
	0	0	2.645751	0	0	0	0
15	0	0	0	-2.64575	0	0	0
	0	0	0	2.645751	0	0	0
	0	0	0	0	-2.64575	0	0
	0	0	0	0	0	-2.64575	0
	0	0	0	0	0	0	-2.64575
	0	0	0	0	0	0	2.645751
	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

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	w	k	m	N
	1	2	4	14
WP	z1	x1	x2	
1	-1	-1	0	0
	-1	1	0	0
	-1	0	-1	-1
	-1	0	1	1
2	0	-1	-1	-1
	0	1	-1	-1
	0	-1	1	1
	0	1	1	1
3	1	-1	0	0
	1	1	0	0
	1	0	-1	-1
	1	0	1	1
4	0	0	0	0
	0	0	0	0

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	w	k	m	N	
	1	3	4	38	
WP	z1	x1	x2	x3	
1	-1	-1	-1	-1	0
	-1	1	-1	-1	0
	-1	-1	1	1	0
	-1	1	1	1	0
	-1	-1	0	0	-1
	-1	1	0	0	-1
	-1	-1	0	0	1
	-1	1	0	0	1
	-1	0	-1	-1	-1
	-1	0	1	1	-1
	-1	0	-1	-1	1
	-1	0	1	1	1
	2	1	-1	-1	-1
1		1	-1	-1	0
1		-1	1	1	0
1		1	1	1	0
1		-1	0	0	-1
1		1	0	0	-1
1		-1	0	0	1
1		1	0	0	1
1		0	-1	-1	-1
1		0	1	1	-1
1		0	-1	-1	1
3	0	-1	-1	-1	0
	0	1	-1	-1	0
	0	-1	1	1	0
	0	1	1	1	0
	0	-1	0	0	-1
	0	1	0	0	-1
	0	-1	0	0	1
	0	1	0	0	1
	0	0	-1	-1	-1
	0	0	1	1	-1
	0	0	-1	-1	1
4	0	0	0	0	0
	0	0	0	0	0

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WP	w 1	k 4	m 4	N 74	x3	x4
1	-1	-1	-1	0	0	0
	-1	1	0	0	0	0
	-1	0	-1	0	0	0
	-1	0	1	0	0	0
	-1	0	0	-1	0	0
	-1	0	0	1	0	0
	-1	0	0	0	0	-1
	-1	0	0	0	0	1
	-1	-1	0	0	0	0
	-1	1	0	0	0	0
	-1	0	-1	0	0	0
	-1	0	1	0	0	0
	-1	0	0	-1	0	0
	-1	0	0	1	0	0
	-1	0	0	0	0	-1
	-1	0	0	0	0	1
	-1	-1	0	0	0	0
	-1	1	0	0	0	0
	-1	0	-1	0	0	0
	-1	0	1	0	0	0
	-1	0	0	-1	0	0
	-1	0	0	1	0	0
	-1	0	0	0	-1	0
	-1	0	0	0	1	0
	-1	0	0	0	0	-1
	-1	0	0	0	0	1
	-1	0	0	0	0	1
2	1	-1	0	0	0	0
	1	1	0	0	0	0
	1	0	-1	0	0	0
	1	0	1	0	0	0
	1	0	0	-1	0	0
	1	0	0	1	0	0
	1	0	0	0	0	-1
	1	0	0	0	0	1
	1	-1	0	0	0	0
	1	1	0	0	0	0
	1	0	-1	0	0	0
	1	0	1	0	0	0
	1	0	0	-1	0	0
	1	0	0	1	0	0
	1	0	0	0	1	0
	1	0	0	0	0	-1
	1	0	0	0	0	1
	1	-1	0	0	0	0
	1	1	0	0	0	0
	1	0	-1	0	0	0
	1	0	1	0	0	0
	1	0	0	-1	0	0
	1	0	0	1	0	0
	1	0	0	0	-1	0
	1	0	0	0	1	0
	1	0	0	0	0	-1
	1	0	0	0	0	1
3	0	0	-1	-1	-1	0
	0	0	1	-1	-1	0
	0	0	-1	1	1	0
	0	0	1	1	1	0
	0	-1	0	0	0	-1
	0	1	0	0	0	-1
	0	-1	0	0	0	1
	0	1	0	0	0	1
	0	0	0	-1	-1	-1
	0	0	0	1	1	-1
	0	0	0	-1	1	1
	0	0	0	1	1	1
	0	0	0	1	1	1
	0	0	0	0	1	1
	0	0	0	1	1	1
	0	-1	-1	0	0	0
	0	1	-1	0	0	0
	0	-1	1	0	0	0
	0	1	1	0	0	0
	0	0	-1	0	0	-1
	0	0	1	0	0	-1
	0	0	-1	0	0	1
	0	0	1	0	0	1
	0	-1	0	-1	0	0
	0	1	0	-1	0	0
	0	-1	0	1	0	0
	0	1	0	1	0	0
4	0	0	0	0	0	0
	0	0	0	0	0	0

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	w	k	m	N	
	2	2	10	38	
WP	z1	z2	x1	x2	
1	-1	-1	0	0	
	-1	-1	0	0	
	-1	-1	0	0	
	-1	-1	0	0	
2	-1	0	0	-1	
	-1	0	0	1	
	-1	0	-1	0	
	-1	0	1	0	
3	-1	1	0	0	
	-1	1	0	0	
	-1	1	0	0	
	-1	1	0	0	
4	0	-1	-1	0	
	0	-1	1	0	
	0	-1	0	-1	
	0	-1	0	1	
5	0	0	-1	-1	
	0	0	1	-1	
	0	0	-1	1	
	0	0	1	1	
6	0	1	-1	0	
	0	1	1	0	
	0	1	0	-1	
	0	1	0	1	
7	1	-1	0	0	
	1	-1	0	0	
	1	-1	0	0	
	1	-1	0	0	
8	1	0	0	-1	
	1	0	0	1	
	1	0	-1	0	
	1	0	1	0	
9	1	1	0	0	
	1	1	0	0	
	1	1	0	0	
	1	1	0	0	
10	0	0	0	0	
	0	0	0	0	

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WP	w 2	k 3	m 10	N 110	x2	x3
1	-1	-1	-1	-1	-1	0
	-1	-1	1	-1	-1	0
	-1	-1	-1	1	1	0
	-1	-1	1	1	1	0
	-1	-1	-1	0	0	-1
	-1	-1	1	0	0	-1
	-1	-1	-1	0	0	1
	-1	-1	1	0	-1	1
	-1	-1	0	-1	-1	-1
	-1	-1	0	1	-1	-1
	-1	-1	0	-1	0	1
	-1	-1	0	1	1	1
2	1	-1	-1	-1	-1	0
	1	-1	1	-1	-1	0
	1	-1	-1	1	1	0
	1	-1	1	1	1	0
	1	-1	-1	0	0	-1
	1	-1	1	0	0	-1
	1	-1	-1	0	0	1
	1	-1	1	0	0	1
	1	-1	0	-1	-1	-1
	1	-1	0	1	-1	-1
	1	-1	0	-1	-1	1
	1	-1	0	1	1	1
3	-1	1	-1	-1	-1	0
	-1	1	1	-1	-1	0
	-1	1	-1	1	1	0
	-1	1	1	1	1	0
	-1	1	-1	0	0	-1
	-1	1	1	0	0	-1
	-1	1	-1	0	0	1
	-1	1	1	0	0	1
	-1	1	0	-1	-1	-1
	-1	1	0	1	-1	-1
	-1	1	0	-1	-1	1
	-1	1	0	1	1	1
4	1	1	-1	-1	-1	0
	1	1	1	-1	-1	0
	1	1	-1	1	1	0
	1	1	1	1	1	0
	1	1	-1	0	0	-1
	1	1	1	0	0	-1
	1	1	-1	0	0	1
	1	1	1	0	0	1
	1	1	-1	0	0	1
	1	1	0	-1	-1	-1
	1	1	0	1	-1	-1
	1	1	0	-1	-1	1
	1	1	0	1	1	1
5	-1	0	-1	-1	-1	0
	-1	0	1	-1	-1	0
	-1	0	-1	1	1	0
	-1	0	1	1	1	0
	-1	0	-1	0	0	-1
	-1	0	1	0	0	-1
	-1	0	-1	0	0	1
	-1	0	1	0	0	1
	-1	0	0	-1	-1	-1
	-1	0	0	1	-1	-1
	-1	0	0	-1	-1	1
	-1	0	0	1	1	1
6	1	0	-1	-1	-1	0
	1	0	1	-1	-1	0
	1	0	-1	1	1	0
	1	0	1	1	1	0
	1	0	-1	0	0	-1
	1	0	1	0	0	-1
	1	0	-1	0	0	1
	1	0	1	0	0	1
	1	0	0	-1	-1	-1
	1	0	0	1	-1	-1
	1	0	0	-1	-1	1
	1	0	0	1	1	1
7	0	-1	-1	-1	-1	0
	0	-1	1	-1	-1	0
	0	-1	-1	1	1	0
	0	-1	1	1	1	0
	0	-1	-1	0	0	-1
	0	-1	1	0	0	-1
	0	-1	-1	0	0	1
	0	-1	1	0	0	1
	0	-1	0	-1	-1	-1
	0	-1	0	1	-1	-1
	0	-1	0	-1	-1	1
	0	-1	0	1	1	1
8	0	1	-1	-1	-1	0
	0	1	1	-1	-1	0
	0	1	-1	1	1	0
	0	1	1	1	1	0
	0	1	-1	0	0	-1
	0	1	1	0	0	-1
	0	1	-1	0	0	1
	0	1	1	0	0	1
	0	1	0	-1	-1	-1
	0	1	0	1	-1	-1
	0	1	0	-1	-1	1
	0	1	0	1	1	1
9	0	0	-1	-1	-1	0
	0	0	1	-1	-1	0
	0	0	-1	1	1	0
	0	0	1	1	1	0
	0	0	-1	0	0	-1
	0	0	1	0	0	-1
	0	0	-1	0	0	1
	0	0	1	0	0	1
	0	0	0	-1	-1	-1
	0	0	0	1	-1	-1
	0	0	0	-1	-1	1
	0	0	0	1	1	1
10	0	0	0	0	0	0
	0	0	0	0	0	0

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	w 2	k 4	m 10	N 74			
WP	z1	z2	x1	x2	x3	x4	
1	-1	-1	0	-1	0	0	0
	-1	-1	0	1	0	0	0
	-1	-1	0	-1	0	0	0
	-1	-1	0	1	0	0	0
	-1	-1	0	-1	0	0	0
	-1	-1	0	1	0	0	0
	-1	-1	0	-1	0	0	0
	-1	-1	0	1	0	0	0
2	-1	0	0	-1	-1	0	0
	-1	0	0	1	-1	0	0
	-1	0	0	-1	1	0	0
	-1	0	0	1	1	0	0
	-1	0	-1	0	0	-1	0
	-1	0	1	0	0	0	-1
	-1	0	-1	0	0	0	1
	-1	0	1	0	0	0	1
3	-1	1	0	-1	0	0	0
	-1	1	0	1	0	0	0
	-1	1	0	-1	0	0	0
	-1	1	0	1	0	0	0
	-1	1	0	-1	0	0	0
	-1	1	0	1	0	0	0
	-1	1	0	-1	0	0	0
	-1	1	0	1	0	0	0
4	0	-1	-1	0	-1	0	0
	0	-1	1	0	-1	0	0
	0	-1	-1	0	1	0	0
	0	-1	1	0	1	0	0
	0	-1	0	0	-1	-1	0
	0	-1	0	0	1	-1	0
	0	-1	0	0	-1	1	0
	0	-1	0	0	1	1	0
5	0	0	-1	-1	0	-1	0
	0	0	1	-1	0	-1	0
	0	0	-1	1	0	-1	0
	0	0	1	1	0	-1	0
	0	0	-1	-1	0	1	0
	0	0	1	-1	0	1	0
	0	0	-1	1	0	1	0
	0	0	1	1	0	1	0
6	0	1	-1	0	-1	0	0
	0	1	1	0	-1	0	0
	0	1	-1	0	1	0	0
	0	1	1	0	1	0	0
	0	1	0	0	-1	-1	0
	0	1	0	0	1	-1	0
	0	1	0	0	-1	1	0
	0	1	0	0	1	1	0
7	1	-1	0	-1	0	0	0
	1	-1	0	1	0	0	0
	1	-1	0	-1	0	0	0
	1	-1	0	1	0	0	0
	1	-1	0	-1	0	0	0
	1	-1	0	1	0	0	0
	1	-1	0	-1	0	0	0
	1	-1	0	1	0	0	0
8	1	0	0	-1	-1	0	0
	1	0	0	1	-1	0	0
	1	0	0	-1	1	0	0
	1	0	0	1	1	0	0
	1	0	-1	0	0	-1	0
	1	0	1	0	0	-1	0
	1	0	-1	0	0	1	0
	1	0	1	0	0	1	0
9	1	1	0	-1	0	0	0
	1	1	0	1	0	0	0
	1	1	0	-1	0	0	0
	1	1	0	1	0	0	0
	1	1	0	-1	0	0	0
	1	1	0	1	0	0	0
	1	1	0	-1	0	0	0
	1	1	0	1	0	0	0
10	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

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	w 3	k 2	m 20	N 78		
WP	z1	z2	z3	x1	x2	
1	-1	-1	0	0	0	0
	-1	-1	0	0	0	0
	-1	-1	0	0	0	0
	-1	-1	0	0	0	0
2	-1	0	-1	0	0	0
	-1	0	-1	0	0	0
	-1	0	-1	0	0	0
	-1	0	-1	0	0	0
3	-1	0	0	-1	0	0
	-1	0	0	1	0	0
	-1	0	0	0	0	-1
	-1	0	0	0	0	1
4	-1	0	1	0	0	0
	-1	0	1	0	0	0
	-1	0	1	0	0	0
	-1	0	1	0	0	0
5	-1	1	0	0	0	0
	-1	1	0	0	0	0
	-1	1	0	0	0	0
	-1	1	0	0	0	0
6	0	-1	-1	0	0	0
	0	-1	-1	0	0	0
	0	-1	-1	0	0	0
	0	-1	-1	0	0	0
7	0	-1	0	0	-1	-1
	0	-1	0	0	1	1
	0	-1	0	-1	0	0
	0	-1	0	1	0	0
8	0	-1	1	0	0	0
	0	-1	1	0	0	0
	0	-1	1	0	0	0
	0	-1	1	0	0	0
9	0	0	-1	-1	-1	0
	0	0	-1	1	0	0
	0	0	-1	0	0	-1
	0	0	-1	0	0	1
10	0	0	0	-1	-1	-1
	0	0	0	1	-1	-1
	0	0	0	-1	1	1
	0	0	0	1	0	1
11	0	0	1	-1	0	0
	0	0	1	1	0	0
	0	0	1	0	0	-1
	0	0	1	0	0	1
12	0	1	-1	0	0	0
	0	1	-1	0	0	0
	0	1	-1	0	0	0
	0	1	-1	0	0	0
13	0	1	0	0	-1	-1
	0	1	0	0	1	1
	0	1	0	-1	0	0
	0	1	0	1	0	0
14	0	1	1	0	0	0
	0	1	1	0	0	0
	0	1	1	0	0	0
	0	1	1	0	0	0
15	1	-1	0	0	0	0
	1	-1	0	0	0	0
	1	-1	0	0	0	0
	1	-1	0	0	0	0
16	1	0	-1	0	0	0
	1	0	-1	0	0	0
	1	0	-1	0	0	0
	1	0	-1	0	0	0
17	1	0	0	-1	0	0
	1	0	0	1	0	0
	1	0	0	0	0	-1
	1	0	0	0	0	1
18	1	0	1	0	0	0
	1	0	1	0	0	0
	1	0	1	0	0	0
	1	0	1	0	0	0
19	1	1	0	0	0	0
	1	1	0	0	0	0
	1	1	0	0	0	0
	1	1	0	0	0	0
20	0	0	0	0	0	0
	0	0	0	0	0	0

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	w 3	k 3	m 19	N 74			
WP	z1	z2	z3	x1	x2	x3	
1	-1	-1	0	-1	0	0	
	-1	-1	0	1	0	0	
	-1	-1	0	-1	0	0	
	-1	-1	0	1	0	0	
2	-1	0	-1	0	0	-1	
	-1	0	-1	0	0	1	
	-1	0	-1	0	0	-1	
	-1	0	-1	0	0	1	
3	-1	0	0	-1	-1	0	
	-1	0	0	1	-1	0	
	-1	0	0	-1	1	0	
	-1	0	0	1	1	0	
4	-1	0	1	0	0	-1	
	-1	0	1	0	0	1	
	-1	0	1	0	0	-1	
	-1	0	1	0	0	1	
5	-1	1	0	-1	0	0	
	-1	1	0	1	0	0	
	-1	1	0	-1	0	0	
	-1	1	0	1	0	0	
6	0	-1	-1	0	-1	0	
	0	-1	-1	0	1	0	
	0	-1	-1	0	-1	0	
	0	-1	-1	0	1	0	
7	0	-1	0	0	-1	-1	
	0	-1	0	0	1	-1	
	0	-1	0	0	-1	1	
	0	-1	0	0	1	1	
8	0	-1	1	0	-1	0	
	0	-1	1	0	1	0	
	0	-1	1	0	-1	0	
	0	-1	1	0	1	0	
9	0	0	-1	-1	0	-1	
	0	0	-1	1	0	-1	
	0	0	-1	-1	0	1	
	0	0	-1	1	0	1	
10	0	0	1	-1	0	-1	
	0	0	1	1	0	-1	
	0	0	1	-1	0	1	
	0	0	1	1	0	1	
11	0	1	-1	0	-1	0	
	0	1	-1	0	1	0	
	0	1	-1	0	-1	0	
	0	1	-1	0	1	0	
12	0	1	0	0	-1	-1	
	0	1	0	0	1	-1	
	0	1	0	0	-1	1	
	0	1	0	0	1	1	
13	0	1	1	0	-1	0	
	0	1	1	0	1	0	
	0	1	1	0	-1	0	
	0	1	1	0	1	0	
14	1	-1	0	-1	0	0	
	1	-1	0	1	0	0	
	1	-1	0	-1	0	0	
	1	-1	0	1	0	0	
15	1	0	-1	0	0	-1	
	1	0	-1	0	0	1	
	1	0	-1	0	0	-1	
	1	0	-1	0	0	1	
16	1	0	0	-1	-1	0	
	1	0	0	1	-1	0	
	1	0	0	-1	1	0	
	1	0	0	1	1	0	
17	1	0	1	0	0	-1	
	1	0	1	0	0	1	
	1	0	1	0	0	-1	
	1	0	1	0	0	1	
18	1	1	0	-1	0	0	
	1	1	0	1	0	0	
	1	1	0	-1	0	0	
	1	1	0	1	0	0	
19	0	0	0	0	0	0	
	0	0	0	0	0	0	

Updated: 03/28/05

subplot centers can be added one-by-one

w	k	m	N
1	2	3	13
WP	z1	x1	x2
1	-1	-1	0
	-1	1	0
	-1	0	-1
	-1	0	1
2	0	-1	-1
	0	-1	1
	0	1	-1
	0	1	1
	0	0	0
3	1	-1	0
	1	1	0
	1	0	-1
	1	0	1

Updated: 03/28/05

subplot centers can be added one-by-one

w	k	m	N		
1	3	3	25		
WP	z1	x1	x2	x3	
1	-1	-1	0	0	
	-1	1	0	0	
	-1	0	0	-1	
	-1	0	0	1	
	-1	0	-1	0	
	-1	0	1	0	
2	0	0	-1	-1	
	0	0	-1	1	
	0	0	1	-1	
	0	0	1	1	
	0	-1	-1	0	
	0	-1	1	0	
	0	1	-1	0	
	0	1	1	0	
	0	-1	0	-1	
	0	-1	0	1	
	0	1	0	-1	
	0	1	0	1	
	0	0	0	0	
3	1	-1	0	0	
	1	1	0	0	
	1	0	0	-1	
	1	0	0	1	
	1	0	-1	0	
	1	0	1	0	

Updated: 03/28/05

subplot centers can be added one-by-one

	w	k	m	N		
	1	4	3	41		
WP	z1	x1	x2	x3	x4	
1	-1	-1	0	0	0	
	-1	1	0	0	0	
	-1	0	-1	0	0	
	-1	0	1	0	0	
	-1	0	0	-1	0	
	-1	0	0	1	0	
	-1	0	0	0	-1	
	-1	0	0	0	1	
2	0	0	-1	-1	0	
	0	0	-1	1	0	
	0	0	1	-1	0	
	0	0	1	1	0	
	0	-1	0	0	-1	
	0	-1	0	0	1	
	0	1	0	0	-1	
	0	1	0	0	1	
	0	0	0	-1	-1	
	0	0	0	-1	1	
	0	0	0	1	-1	
	0	0	0	1	1	
	0	-1	-1	0	0	
	0	-1	1	0	0	
	0	1	-1	0	0	
	0	1	1	0	0	
	0	0	-1	0	-1	
	0	0	-1	0	1	
	0	0	1	0	-1	
	0	0	1	0	1	
	0	-1	0	-1	0	
	0	-1	0	1	0	
	0	1	0	-1	0	
	0	1	0	1	0	
	0	0	0	0	0	
3	1	-1	0	0	0	
	1	1	0	0	0	
	1	0	-1	0	0	
	1	0	1	0	0	
	1	0	0	-1	0	
	1	0	0	1	0	
	1	0	0	0	-1	
	1	0	0	0	1	

Updated: 03/28/05

subplot centers can be added one-by-one

w	k	m	N
1	2	3	11

WP	z1	x1	x2
1	-1	1	1
	-1	-1	-1
	-1	0	0
2	0	-1	0
	0	1	0
	0	0	-1
	0	0	1
	0	0	0
3	1	1	-1
	1	-1	1
	1	0	0

Updated: 03/28/05

subplot centers can be added one-by-one

	w	k	m	N
	1	3	3	17
WP	z1	x1	x2	x3
1	-1	1	-1	1
	-1	-1	1	-1
	-1	1	1	1
	-1	-1	-1	-1
	-1	0	0	0
2	0	-1	0	0
	0	1	0	0
	0	0	-1	0
	0	0	1	0
	0	0	0	-1
	0	0	0	1
	0	0	0	0
3	1	1	1	-1
	1	1	-1	-1
	1	-1	1	1
	1	-1	-1	1
	1	0	0	0

Updated: 03/28/05

subplot centers can be added one-by-one

w	k	m	N			
1	4	3	22			
WP	z1	x1	x2	x3	x4	
1	-1	1	1	-1	1	
	-1	-1	1	1	1	
	-1	1	-1	1	1	
	-1	1	1	1	-1	
	-1	-1	-1	-1	-1	
	-1	0	0	0	0	
2	0	-1	0	0	0	
	0	1	0	0	0	
	0	0	-1	0	0	
	0	0	1	0	0	
	0	0	0	-1	0	
	0	0	0	1	0	
	0	0	0	0	-1	
	0	0	0	0	1	
	0	0	0	0	0	
3	1	1	-1	1	-1	
	1	-1	1	1	-1	
	1	1	1	-1	-1	
	1	1	-1	-1	1	
	1	-1	-1	1	1	
	1	-1	1	-1	1	
	1	0	0	0	0	

Updated: 03/28/05

	w	k	m	N
	1	1	3	6
WP	z1	x1		
1	-1	1		
	-1	-1		
2	1	1		
	1	-1		
	1	0		
3	0	1		

Updated: 03/28/05

	w	k	m	N
	1	2	3	10
WP	z1	x1	x2	
1	-1	1	1	1
	-1	1	-1	-1
	-1	-1	1	1
2	1	1	1	1
	1	1	-1	-1
	1	-1	1	1
	1	-1	-1	-1
	1	0	0	0
3	0	1	1	0
	0	0	0	1

Updated: 03/28/05

	w	k	m	N	
	1	3	3	15	
WP	z1	x1	x2	x3	
1	-1	1	1	-1	
	-1	1	-1	1	
	-1	-1	1	1	
	-1	1	1	1	
	-1	-1	-1	-1	
2	1	1	-1	-1	
	1	-1	1	-1	
	1	-1	-1	1	
	1	1	1	-1	
	1	1	-1	1	
	1	-1	1	1	
	1	0	0	0	
3	0	1	0	0	
	0	0	1	0	
	0	0	0	1	

NOTZ_SAT_D14

Updated: 03/28/05

	w	k	m	N		
	1	4	3	21		
WP	z1	x1	x2	x3	x4	
1	-1	1	1	1	-1	
	-1	1	1	-1	1	
	-1	1	-1	1	1	
	-1	-1	1	1	1	
	-1	1	-1	-1	-1	
	-1	-1	1	-1	-1	
	-1	-1	-1	1	-1	
	-1	-1	-1	-1	1	
2	1	1	1	1	1	
	1	1	1	-1	-1	
	1	1	-1	1	-1	
	1	1	-1	-1	1	
	1	-1	1	1	-1	
	1	-1	1	-1	1	
	1	-1	-1	1	1	
	1	-1	-1	-1	-1	
	1	1	0	0	1	
	1	1	0	1	0	
1	0	1	0	0		
3	0	0	0	1	1	
	0	1	1	0	0	

Updated: 03/28/05

	w	k	m	N
	2	1	7	10
WP	z1	z2	x1	
1	-1	-1	1	
2	-1	1	1	
	-1	1	-1	
3	1	-1	1	
	1	-1	-1	
4	1	1	1	
	1	1	-1	
5	1	0	0	
6	0	1	0	
7	0	0	1	

Updated: 03/28/05

	w	k	m	N	
	2	2	7	15	
WP	z1	z2	x1	x2	
1	-1	-1	1	1	
	-1	-1	-1	-1	
2	-1	1	1	-1	
	-1	1	-1	1	
	-1	1	1	1	
3	1	-1	1	-1	
	1	-1	-1	1	
	1	-1	1	1	
4	1	1	-1	-1	
	1	1	1	-1	
	1	1	-1	1	
5	1	0	0	0	
6	0	1	0	0	
7	0	0	1	0	
	0	0	0	1	

NOTZ_SAT_D23

Updated: 03/28/05

	w 2	k 3	m 7	N 21		
WP	z1	z2	x1	x2	x3	
1	-1	-1	1	1	1	
	-1	-1	1	-1	-1	
	-1	-1	-1	1	-1	
	-1	-1	-1	-1	1	
2	-1	1	1	1	-1	
	-1	1	1	-1	1	
	-1	1	-1	1	1	
	-1	1	-1	-1	-1	
3	1	-1	1	1	-1	
	1	-1	1	-1	1	
	1	-1	-1	1	1	
	1	-1	-1	-1	-1	
4	1	1	1	1	1	
	1	1	1	-1	-1	
	1	1	-1	1	-1	
	1	1	-1	-1	1	
	1	1	0	0	1	
	1	1	0	1	0	
5	1	0	1	0	0	
6	0	1	1	0	0	
7	0	0	0	1	1	

NOTZ_SAT_D24

Updated: 03/28/05

	w 2	k 4	m 7	N 28			
WP	z1	z2	x1	x2	x3	x4	
1	-1	-1	1	-1	-1	-1	-1
	-1	-1	-1	1	-1	-1	-1
	-1	-1	-1	-1	1	-1	-1
	-1	-1	-1	-1	-1	1	1
	-1	-1	1	1	1	1	1
2	-1	1	-1	-1	-1	-1	-1
	-1	1	1	1	1	1	-1
	-1	1	1	1	-1	1	1
	-1	1	1	-1	1	1	1
	-1	1	-1	1	1	1	1
3	1	-1	-1	-1	-1	-1	-1
	1	-1	1	1	1	1	-1
	1	-1	1	1	-1	1	1
	1	-1	1	-1	1	1	1
	1	-1	-1	1	1	1	1
4	1	1	1	1	1	1	1
	1	1	1	1	1	-1	-1
	1	1	1	-1	1	1	-1
	1	1	1	-1	-1	-1	1
	1	1	-1	1	1	1	-1
	1	1	-1	1	-1	-1	1
	1	1	-1	-1	1	1	1
	1	1	0	1	0	0	1
	1	1	0	0	1	1	1
5	1	0	1	0	0	0	0
6	0	1	1	0	0	0	1
	0	1	1	1	1	1	0
7	0	0	1	1	1	1	1

Updated: 03/28/05

	w	k	m	N	
	3	1	12	15	
WP	z1	z2	z3	x1	
1	-1	-1	-1	-1	-1
2	-1	-1	1	1	1
3	-1	1	-1	-1	1
4	-1	1	1	1	-1
	-1	1	1	1	1
5	1	-1	-1	-1	1
6	1	-1	1	1	-1
	1	-1	1	1	1
7	1	1	-1	-1	-1
	1	1	-1	-1	1
8	1	1	1	1	-1
9	1	0	0	0	0
10	0	1	0	0	0
11	0	0	1	1	0
12	0	0	0	0	1

NOTZ_SAT_D32

Updated: 03/28/05

	w	k	m	N		
	3	2	12	21		
WP	z1	z2	z3	x1	x2	
1	-1	-1	-1	1	-1	
	-1	-1	-1	-1	1	
2	-1	-1	1	1	1	
	-1	-1	1	-1	-1	
3	-1	1	-1	1	1	
	-1	1	-1	-1	-1	
4	-1	1	1	1	-1	
	-1	1	1	-1	1	
5	1	-1	-1	1	1	
	1	-1	-1	-1	-1	
6	1	-1	1	1	-1	
	1	-1	1	-1	1	
7	1	1	-1	1	-1	
	1	1	-1	-1	1	
8	1	1	1	1	1	
	1	1	1	-1	-1	
9	1	1	0	0	1	
	1	1	0	1	0	
10	1	0	1	0	0	
11	0	1	1	0	0	
12	0	0	0	1	1	

NOTZ_SAT_D33

Updated: 03/28/05

	w	k	m	N			
	3	3	12	28			
WP	z1	z2	z3	x1	x2	x3	
1	-1	-1	-1	1	-1	-1	
	-1	-1	-1	-1	1	-1	
	-1	-1	-1	-1	-1	1	
2	-1	-1	1	-1	-1	-1	
	-1	-1	1	1	1	1	
3	-1	1	-1	-1	-1	-1	
	-1	1	-1	1	1	1	
4	-1	1	1	1	1	-1	
	-1	1	1	1	-1	1	
	-1	1	1	-1	1	1	
5	1	-1	-1	-1	-1	-1	
	1	-1	-1	1	1	1	
6	1	-1	1	1	1	-1	
	1	-1	1	1	-1	1	
	1	-1	1	-1	1	1	
7	1	1	-1	1	1	-1	
	1	1	-1	1	-1	1	
	1	1	-1	-1	1	1	
8	1	1	1	1	1	1	
	1	1	1	1	-1	-1	
	1	1	1	-1	1	-1	
	1	1	1	-1	-1	1	
9	1	1	0	1	0	1	
	1	1	0	0	1	1	
10	1	0	1	0	0	0	
11	0	1	1	0	0	1	
	0	1	1	1	1	0	
12	0	0	1	1	1	1	

Updated: 03/28/05

	w	k	m	N
	1	1	3	7
WP	z1	x1		
1	-1	1		
	-1	-1		
2	1	1		
	1	-1		
	1	0		
3	0	1		
	0	-1		

Updated: 03/28/05

	w	k	m	N
	1	1	3	7
WP	z1	x1		
1	-1	1		
	-1	-1		
2	1	1		
	1	-1		
	1	0		
3	0	1		
	0	0		

Updated: 03/28/05

	w	k	m	N
	1	1	3	8
WP	z1	x1		
1	-1	1		
	-1	-1		
2	1	1		
	1	-1		
	1	0		
3	0	1		
	0	-1		
	0	0		

Updated: 03/28/05

	w	k	m	N
	1	2	3	11
WP	z1	x1	x2	
1	-1	-1	-1	-1
	-1	1	-1	-1
	-1	-1	1	1
	-1	1	1	1
2	1	-1	-1	-1
	1	1	1	-1
	1	-1	1	1
	1	1	1	1
	1	0	0	0
3	0	1	1	0
	0	0	0	1

Updated: 03/28/05

	w	k	m	N
	1	2	3	12
WP	z1	x1	x2	
1	-1	-1	-1	-1
	-1	1	-1	-1
	-1	-1	1	1
	-1	1	1	1
2	1	-1	-1	-1
	1	1	1	-1
	1	-1	1	1
	1	1	1	1
	1	0	0	0
3	0	1	1	0
	0	0	0	1
	0	0	0	0

Updated: 03/28/05

	w	k	m	N	
	1	3	3	16	
WP	z1	x1	x2	x3	
1	-1	1	1	-1	-1
	-1	1	-1	1	1
	-1	-1	1	1	1
	-1	1	1	1	1
	-1	-1	-1	-1	-1
2	0	1	0	0	0
	0	0	1	0	0
	0	0	0	0	1
	0	0	0	0	0
3	1	1	-1	-1	-1
	1	-1	1	-1	-1
	1	-1	-1	1	1
	1	1	1	-1	-1
	1	1	-1	1	1
	1	-1	1	1	1
	1	0	0	0	0

Updated: 03/28/05

	w	k	m	N	
	1	3	3	16	
WP	z1	x1	x2	x3	
1	-1	-1	-1	-1	-1
	-1	-1	1	1	1
	-1	1	-1	1	1
	-1	1	1	1	1
	-1	1	1	1	-1
2	0	0	0	0	1
	0	0	1	1	0
	0	1	0	0	0
3	1	-1	-1	-1	1
	1	-1	-1	-1	-1
	1	-1	1	-1	-1
	1	-1	1	1	1
	1	0	0	0	0
	1	1	-1	1	1
	1	1	-1	-1	-1
	1	1	1	1	-1

Updated: 03/28/05

	w	k	m	N
	2	1	7	11
WP	z1	z2	x1	
1	-1	-1	1	
	-1	-1	-1	
2	-1	1	1	
	-1	1	-1	
3	1	-1	1	
	1	-1	-1	
4	1	1	1	
	1	1	-1	
5	1	0	0	
6	0	1	0	
7	0	0	1	

Updated: 03/28/05

	w	k	m	N	
	2	2	7	16	
WP	z1	z2	x1	x2	
1	-1	-1	1	1	1
	-1	-1	-1	-1	-1
	-1	-1	1	-1	-1
2	-1	1	1	-1	-1
	-1	1	-1	1	1
	-1	1	1	1	1
3	0	0	1	0	0
	0	0	0	0	1
4	0	1	0	0	0
5	1	-1	1	-1	-1
	1	-1	-1	1	1
	1	-1	1	1	1
6	1	0	0	0	0
7	1	1	-1	-1	-1
	1	1	1	-1	-1
	1	1	-1	1	1

Updated: 03/28/05

	w	k	m	N	
	2	2	7	16	
WP	z1	z2	x1	x2	
1	-1	-1	-1	-1	-1
	-1	-1	1	1	1
2	-1	1	-1	1	1
	-1	1	1	1	1
	-1	1	1	1	-1
3	0	0	0	0	1
	0	0	1	1	0
4	0	1	0	0	0
5	1	-1	-1	-1	1
	1	-1	-1	-1	-1
	1	-1	1	1	-1
	1	-1	1	1	1
6	1	0	0	0	0
7	1	1	-1	-1	1
	1	1	-1	-1	-1
	1	1	1	1	-1

NOTZ_AUG_D24A

Updated: 03/28/05

	w 2	k 4	m 7	N 30			
WP	z1	z2	x1	x2	x3	x4	
1	-1	-1	1	-1	-1	-1	-1
	-1	-1	-1	1	-1	-1	-1
	-1	-1	-1	-1	1	-1	-1
	-1	-1	-1	-1	-1	-1	1
	-1	-1	1	1	1	1	1
2	-1	1	-1	-1	-1	-1	-1
	-1	1	1	1	1	1	-1
	-1	1	1	1	-1	-1	1
	-1	1	1	-1	1	1	1
	-1	1	-1	1	1	1	1
3	0	0	1	1	1	1	1
	0	0	0	-1	0	0	1
4	0	1	1	0	0	0	1
	0	1	1	1	1	1	0
	0	1	0	0	-1	-1	0
5	1	-1	-1	-1	-1	-1	-1
	1	-1	1	1	1	1	-1
	1	-1	1	1	-1	-1	1
	1	-1	1	-1	1	1	1
	1	-1	-1	1	1	1	1
6	1	0	1	0	0	0	0
7	1	1	1	1	1	1	1
	1	1	1	1	-1	-1	-1
	1	1	1	-1	1	-1	-1
	1	1	1	-1	-1	-1	1
	1	1	-1	1	1	1	-1
	1	1	-1	1	-1	-1	1
	1	1	-1	-1	1	1	1
	1	1	0	1	0	0	1
	1	1	0	0	1	1	1

NOTZ_AUG_D24AD

Updated: 03/28/05

	w 2	k 4	m 7	N 30			
WP	z1	z2	x1	x2	x3	x4	
1	-1	-1	1	-1	-1	-1	-1
	-1	-1	-1	1	-1	-1	-1
	-1	-1	-1	-1	1	-1	-1
	-1	-1	-1	-1	-1	-1	1
	-1	-1	1	1	1	1	1
2	-1	1	-1	-1	-1	-1	-1
	-1	1	1	1	1	1	-1
	-1	1	1	1	-1	-1	1
	-1	1	1	-1	1	1	1
	-1	1	-1	1	1	1	1
3	1	-1	-1	-1	-1	-1	-1
	1	-1	1	1	1	1	-1
	1	-1	1	1	-1	-1	1
	1	-1	1	-1	1	1	1
	1	-1	-1	1	1	1	1
4	1	1	1	1	1	1	1
	1	1	1	1	1	-1	-1
	1	1	1	-1	1	1	-1
	1	1	1	-1	-1	-1	1
	1	1	-1	1	1	1	-1
	1	1	-1	1	-1	-1	1
	1	1	-1	-1	1	1	1
	1	1	0	1	0	0	1
	1	1	0	0	1	1	1
5	1	0	1	0	0	0	0
6	0	1	1	0	0	0	1
	0	1	1	1	1	1	0
	0	1	0	0	-1	-1	0
7	0	0	1	1	1	1	1
	0	0	0	-1	0	0	1

Updated: 03/28/05

	w	k	m	N	
	3	1	12	20	
WP	z1	z2	z3	x1	
1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	1
2	-1	-1	1	1	1
	-1	-1	1	1	-1
3	-1	1	-1	-1	1
	-1	1	-1	-1	-1
4	-1	1	1	1	1
	-1	1	1	1	-1
5	1	-1	-1	-1	1
	1	-1	-1	-1	-1
6	1	-1	1	1	-1
	1	-1	1	1	1
7	1	1	-1	-1	1
	1	1	-1	-1	-1
8	1	1	1	1	-1
	1	1	1	1	1
9	1	0	0	0	0
10	0	1	0	0	0
11	0	0	1	1	0
12	0	0	0	0	1

Updated: 03/28/05

	w	k	m	N
	1	2	3	10
WP	z1	x1	x2	
1	-1	-1	-1	-1
	-1	1	1	1
	-1	1	-1	-1
	-1	-1	1	1
2	0	1	0	0
	0	0	0	1
3	1	1	1	-1
	1	-1	1	1
	1	-1	-1	-1
	1	0	0	0

Updated: 03/28/05

	w	k	m	N
	1	2	3	10
WP	z1	x1	x2	
1	-1	-1	-1	-1
	-1	1	1	1
	-1	1	-1	-1
	-1	-1	1	1
	-1	0	0	0
2	0	-1	-1	0
	0	0	0	-1
3	1	1	1	-1
	1	-1	1	1
	1	-1	-1	-1

Updated: 03/28/05

	w	k	m	N
	1	2	3	10
WP	z1	x1	x2	
1	-1	1	1	1
	-1	1	-1	-1
	-1	-1	1	1
	-1	0	-1	-1
	-1	-1	0	0
2	1	1	1	-1
	1	-1	1	1
	1	-1	-1	-1
3	0	0	0	0
	0	-1	-1	-1

Updated: 03/28/05

w	k	m	N
1	2	3	13
WP	z1	x1	x2
1	-1	-1	-1
	-1	1	1
	-1	1	-1
	-1	-1	1
	-1	0	0
2	0	1	0
	0	0	1
	0	-1	0
	0	0	-1
3	1	1	-1
	1	-1	1
	1	-1	-1
	1	0	0

Updated: 03/28/05

	w	k	m	N
	1	2	3	13
	WP	z1	x1	x2
1		-1	-1	-1
		-1	1	1
		-1	1	-1
		-1	-1	1
		-1	0	-1
		-1	-1	0
2		0	1	0
		0	0	1
		0	-1	-1
3		1	1	-1
		1	-1	1
		1	-1	-1
		1	0	0

Updated: 03/28/05

	w	k	m	N
	1	2	3	13
WP		z1	x1	x2
1		-1	-1	-1
		-1	1	1
		-1	1	-1
		-1	-1	1
		-1	0	0
2		0	-1	0
		0	0	-1
		0	1	1
3		1	1	-1
		1	-1	1
		1	-1	-1
		1	1	0
		1	0	1

Updated: 03/28/05

	w	k	m	N
	1	2	3	13
WP	z1	x1	x2	
1	-1	1	1	1
	-1	1	-1	-1
	-1	-1	1	1
	-1	0	-1	-1
	-1	-1	0	0
2	0	0	0	0
	0	-1	-1	-1
	0	1	0	0
	0	0	0	1
3	1	1	1	-1
	1	-1	1	1
	1	-1	-1	-1
	1	0	0	0

Updated: 03/28/05

	w	k	m	N	
	1	3	3	15	
WP	z1	x1	x2	x3	
1	-1	-1	-1	-1	-1
	-1	1	1	1	1
	-1	1	1	1	-1
	-1	1	-1	1	1
	-1	-1	1	1	1
2	0	1	0	0	0
	0	0	1	1	0
	0	0	0	0	1
3	1	1	1	1	-1
	1	1	-1	1	1
	1	-1	1	1	1
	1	1	-1	-1	-1
	1	-1	1	-1	-1
	1	-1	-1	1	1
	1	0	0	0	0

Updated: 03/28/05

	w	k	m	N	
	1	3	3	15	
WP	z1	x1	x2	x3	
1	-1	-1	-1	-1	-1
	-1	1	1	1	1
	-1	1	1	1	-1
	-1	1	-1	-1	1
	-1	-1	1	1	1
	-1	0	0	0	0
2	0	-1	0	0	0
	0	0	-1	-1	0
	0	0	0	0	-1
3	1	1	1	1	-1
	1	1	-1	-1	1
	1	-1	1	1	1
	1	1	-1	-1	-1
	1	-1	1	1	-1
	1	-1	-1	-1	1

Updated: 03/28/05

	w	k	m	N	
	1	3	3	15	
WP	z1	x1	x2	x3	
1	-1	1	1	1	1
	-1	1	1	1	-1
	-1	1	-1	1	1
	-1	-1	1	1	1
	-1	0	-1	-1	-1
	-1	-1	0	0	-1
	-1	-1	-1	-1	0
2	0	0	0	0	0
	0	-1	-1	-1	-1
3	1	1	1	1	-1
	1	1	-1	1	1
	1	-1	1	1	1
	1	1	-1	-1	-1
	1	-1	1	1	-1
	1	-1	-1	-1	1

Updated: 03/28/05

	w	k	m	N	
	1	3	3	19	
WP	z1	x1	x2	x3	
1	-1	-1	-1	-1	-1
	-1	1	1	1	1
	-1	1	1	1	-1
	-1	1	-1	1	1
	-1	-1	1	1	1
	-1	0	0	0	0
2	0	1	0	0	0
	0	0	1	1	0
	0	0	0	0	1
	0	-1	0	0	0
	0	0	-1	1	0
	0	0	0	0	-1
3	1	1	1	1	-1
	1	1	-1	1	1
	1	-1	1	1	1
	1	1	-1	-1	-1
	1	-1	1	-1	-1
	1	-1	-1	1	1
	1	0	0	0	0

Updated: 03/28/05

	w	k	m	N	
	1	3	3	19	
WP	z1	x1	x2	x3	
1	-1	-1	-1	-1	-1
	-1	1	1	1	1
	-1	1	1	1	-1
	-1	1	-1	1	1
	-1	-1	1	1	1
	-1	0	-1	-1	-1
	-1	-1	0	0	-1
	-1	-1	-1	-1	0
2	0	1	0	0	0
	0	0	1	0	0
	0	0	0	0	1
	0	-1	-1	-1	-1
3	1	1	1	1	-1
	1	1	-1	1	1
	1	-1	1	1	1
	1	1	-1	-1	-1
	1	-1	1	-1	-1
	1	-1	-1	-1	1
	1	0	0	0	0

Updated: 03/28/05

	w	k	m	N	
	1	3	3	19	
WP	z1	x1	x2	x3	
1	-1	-1	-1	-1	-1
	-1	1	1	1	1
	-1	1	1	1	-1
	-1	1	-1	-1	1
	-1	-1	1	1	1
	-1	0	0	0	0
2	0	-1	0	0	0
	0	0	-1	-1	0
	0	0	0	0	-1
	0	1	1	1	1
3	1	1	1	1	-1
	1	1	-1	-1	1
	1	-1	1	1	1
	1	1	-1	-1	-1
	1	-1	1	1	-1
	1	-1	-1	-1	1
	1	1	1	1	0
	1	1	0	0	1
	1	0	1	1	1

Updated: 03/28/05

	w	k	m	N	
	1	3	3	19	
WP	z1	x1	x2	x3	
1	-1	1	1	1	1
	-1	1	1	1	-1
	-1	1	-1	1	1
	-1	-1	1	1	1
	-1	0	-1	-1	-1
	-1	-1	0	0	-1
	-1	-1	-1	-1	0
2	0	0	0	0	0
	0	-1	-1	-1	-1
	0	1	0	0	0
	0	0	1	1	0
	0	0	0	0	1
3	1	1	1	1	-1
	1	1	-1	-1	1
	1	-1	1	1	1
	1	1	-1	-1	-1
	1	-1	1	1	-1
	1	-1	-1	-1	1
	1	0	0	0	0

Updated: 03/28/05

	w	k	m	N		
	1	4	3	21		
WP	z1	x1	x2	x3	x4	
1	-1	-1	-1	-1	-1	-1
	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
	-1	1	-1	1	1	-1
	-1	1	-1	-1	-1	1
	-1	-1	1	1	1	-1
	-1	-1	1	-1	-1	1
	-1	-1	-1	1	1	1
2	0	1	0	0	0	0
	0	0	1	0	0	0
	0	0	0	1	1	0
	0	0	0	0	0	1
3	1	1	1	1	1	-1
	1	1	1	-1	-1	1
	1	1	-1	1	1	1
	1	-1	1	1	1	1
	1	1	-1	-1	-1	-1
	1	-1	1	-1	-1	-1
	1	-1	-1	1	1	-1
	1	-1	-1	-1	-1	1
	1	0	0	0	0	0

Updated: 03/28/05

	w	k	m	N		
	1	4	3	21		
WP	z1	x1	x2	x3	x4	
1	-1	-1	-1	-1	-1	-1
	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
	-1	1	-1	1	1	-1
	-1	1	-1	-1	-1	1
	-1	-1	1	1	1	-1
	-1	-1	1	-1	-1	1
	-1	-1	-1	1	1	1
	-1	0	0	0	0	0
2	0	-1	0	0	0	0
	0	0	-1	0	0	0
	0	0	0	-1	0	0
	0	0	0	0	0	-1
3	1	1	1	1	1	-1
	1	1	1	-1	1	1
	1	1	-1	1	1	1
	1	-1	1	1	1	1
	1	1	-1	-1	-1	-1
	1	-1	1	-1	-1	-1
	1	-1	-1	1	1	-1
	1	-1	-1	-1	-1	1

Updated: 03/28/05

	w	k	m	N		
	1	4	3	21		
WP	z1	x1	x2	x3	x4	
1	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
	-1	1	-1	1	-1	-1
	-1	1	-1	-1	1	1
	-1	-1	1	1	-1	-1
	-1	-1	1	-1	1	1
	-1	-1	-1	1	1	1
	-1	0	-1	-1	-1	-1
	-1	-1	0	-1	-1	-1
	-1	-1	-1	0	-1	-1
	-1	-1	-1	-1	-1	0
2	0	0	0	0	0	0
	0	-1	-1	-1	-1	-1
3	1	1	1	1	1	-1
	1	1	1	-1	1	1
	1	1	-1	1	1	1
	1	-1	1	1	1	1
	1	1	-1	-1	-1	-1
	1	-1	1	-1	-1	-1
	1	-1	-1	1	-1	-1
	1	-1	-1	-1	-1	1

Updated: 03/28/05

	w	k	m	N		
	1	4	3	26		
WP	z1	x1	x2	x3	x4	
1	-1	-1	-1	-1	-1	-1
	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
	-1	1	-1	1	1	-1
	-1	1	-1	-1	-1	1
	-1	-1	1	1	1	-1
	-1	-1	1	-1	-1	1
	-1	-1	-1	1	1	1
	-1	0	0	0	0	0
2	0	1	0	0	0	0
	0	0	1	0	0	0
	0	0	0	1	0	0
	0	0	0	0	1	0
	0	-1	0	0	0	0
	0	0	-1	0	0	0
	0	0	0	-1	0	0
	0	0	0	0	-1	0
	0	0	0	0	0	-1
3	1	1	1	1	1	-1
	1	1	1	-1	-1	1
	1	1	-1	1	1	1
	1	-1	1	1	1	1
	1	1	-1	-1	-1	-1
	1	-1	1	-1	-1	-1
	1	-1	-1	1	-1	-1
	1	-1	-1	-1	-1	1
	1	0	0	0	0	0

Updated: 03/28/05

	w	k	m	N		
	1	4	3	26		
WP	z1	x1	x2	x3	x4	
1	-1	-1	-1	-1	-1	-1
	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
	-1	1	-1	1	1	-1
	-1	1	-1	-1	-1	1
	-1	-1	1	1	1	-1
	-1	-1	1	-1	-1	1
	-1	-1	-1	1	1	1
	-1	0	-1	-1	-1	-1
	-1	-1	0	0	-1	-1
	-1	-1	-1	-1	0	-1
	-1	-1	-1	-1	-1	0
	2	0	1	0	0	0
0		0	1	0	0	0
0		0	0	1	0	0
0		0	0	0	0	1
0		-1	-1	-1	-1	-1
3	1	1	1	1	1	-1
	1	1	1	-1	-1	1
	1	1	-1	1	1	1
	1	-1	1	1	1	1
	1	1	-1	-1	-1	-1
	1	-1	1	-1	-1	-1
	1	-1	-1	1	-1	-1
	1	-1	-1	-1	-1	1
	1	0	0	0	0	0

Updated: 03/28/05

	w	k	m	N		
	1	4	3	26		
WP	z1	x1	x2	x3	x4	
1	-1	-1	-1	-1	-1	-1
	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
	-1	1	-1	1	1	-1
	-1	1	-1	-1	-1	1
	-1	-1	1	1	1	-1
	-1	-1	1	-1	-1	1
	-1	-1	-1	1	1	1
	-1	0	0	0	0	0
2	0	-1	0	0	0	0
	0	0	-1	0	0	0
	0	0	0	-1	0	0
	0	0	0	0	0	-1
	0	1	1	1	1	1
3	1	1	1	1	1	-1
	1	1	1	-1	-1	1
	1	1	-1	1	1	1
	1	-1	1	1	1	1
	1	1	-1	-1	-1	-1
	1	-1	1	-1	-1	-1
	1	-1	-1	1	1	-1
	1	-1	-1	-1	-1	1
	1	1	1	1	1	0
	1	1	1	0	0	1
	1	1	0	1	1	1
	1	0	1	1	1	1

Updated: 03/28/05

	w	k	m	N		
	1	4	3	26		
WP	z1	x1	x2	x3	x4	
1	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
	-1	1	-1	1	-1	-1
	-1	1	-1	-1	1	1
	-1	-1	1	1	-1	-1
	-1	-1	1	-1	1	1
	-1	-1	-1	1	1	1
	-1	0	-1	-1	-1	-1
	-1	-1	0	-1	-1	-1
	-1	-1	-1	0	-1	-1
	-1	-1	-1	-1	-1	0
2	0	0	0	0	0	0
	0	-1	-1	-1	-1	-1
	0	1	0	0	0	0
	0	0	1	0	0	0
	0	0	0	1	0	0
	0	0	0	0	0	1
3	1	1	1	1	1	-1
	1	1	1	-1	-1	1
	1	1	-1	1	1	1
	1	-1	1	1	1	1
	1	1	-1	-1	-1	-1
	1	-1	1	-1	-1	-1
	1	-1	-1	1	-1	-1
	1	-1	-1	-1	-1	1
	1	0	0	0	0	0

Updated: 03/28/05

	w	k	m	N
	2	1	7	10
WP	z1	z2	x1	
1	-1	-1	-1	-1
	-1	-1	1	1
2	-1	1	1	1
	-1	1	-1	-1
3	0	0	0	1
4	0	1	1	0
5	1	-1	-1	1
	1	-1	-1	-1
6	1	0	0	0
7	1	1	1	-1

Updated: 03/28/05

	w	k	m	N
	2	1	7	10
WP	z1	z2	x1	
1	-1	-1	-1	-1
	-1	-1	1	
2	-1	0	0	0
3	-1	1	1	1
	-1	1	-1	
4	0	-1	0	0
5	0	0	-1	-1
6	1	-1	1	1
	1	-1	-1	
7	1	1	-1	-1

Updated: 03/28/05

	w	k	m	N
	2	1	7	10
WP	z1	z2	x1	
1	-1	-1	1	1
	-1	-1	0	0
2	-1	0	-1	-1
3	-1	1	1	1
	-1	1	-1	-1
4	0	-1	-1	-1
5	0	0	0	0
6	1	-1	1	1
	1	-1	-1	-1
7	1	1	1	-1

Updated: 03/28/05

	w	k	m	N	
	2	2	7	15	
WP	z1	z2	x1	x2	
1	-1	-1	-1	-1	-1
	-1	-1	1	1	1
2	-1	1	1	1	1
	-1	1	1	1	-1
	-1	1	-1	-1	1
3	0	0	1	0	0
	0	0	0	0	1
4	0	1	0	0	0
	1	-1	1	1	1
	1	-1	1	1	-1
5	1	-1	-1	-1	1
6	1	0	0	0	0
7	1	1	1	1	-1
	1	1	-1	-1	1
	1	1	-1	-1	-1

Updated: 03/28/05

	w	k	m	N	
	2	2	7	15	
WP	z1	z2	x1	x2	
1	-1	-1	-1	-1	-1
	-1	-1	1	1	1
2	-1	0	0	0	0
3	-1	1	1	1	1
	-1	1	1	1	-1
	-1	1	-1	-1	1
4	0	-1	0	0	0
5	0	0	-1	-1	0
	0	0	0	0	-1
6	1	-1	1	1	1
	1	-1	1	1	-1
	1	-1	-1	-1	1
7	1	1	1	1	-1
	1	1	-1	-1	1
	1	1	-1	-1	-1

Updated: 03/28/05

	w	k	m	N	
	2	2	7	15	
WP	z1	z2	x1	x2	
1	-1	-1	1	1	1
	-1	-1	0	-1	-1
	-1	-1	-1	0	0
2	-1	0	-1	-1	-1
3	-1	1	1	1	1
	-1	1	1	-1	-1
	-1	1	-1	1	1
4	0	-1	-1	-1	-1
5	0	0	0	0	0
6	1	-1	1	1	1
	1	-1	1	-1	-1
	1	-1	-1	1	1
7	1	1	1	1	-1
	1	1	-1	1	1
	1	1	-1	-1	-1

Updated: 03/28/05

	w 2	k 3	m 7	N 21		
WP	z1	z2	x1	x2	x3	
1	-1	-1	-1	-1	-1	-1
	-1	-1	1	1	-1	-1
	-1	-1	1	-1	1	1
	-1	-1	-1	1	1	1
2	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
	-1	1	-1	1	-1	-1
	-1	1	-1	-1	1	1
3	0	0	1	0	0	0
	0	0	0	1	0	0
	0	0	0	0	0	1
4	0	1	0	0	0	0
5	1	-1	1	1	1	1
	1	-1	1	-1	-1	-1
	1	-1	-1	1	-1	-1
	1	-1	-1	-1	1	1
6	1	0	0	0	0	0
7	1	1	1	1	1	-1
	1	1	1	-1	1	1
	1	1	-1	1	1	1
	1	1	-1	-1	-1	-1

Updated: 03/28/05

	w 2	k 3	m 7	N 21		
WP	z1	z2	x1	x2	x3	
1	-1	-1	-1	-1	-1	-1
	-1	-1	1	1	1	-1
	-1	-1	1	-1	-1	1
	-1	-1	-1	1	1	1
2	-1	0	0	0	0	0
3	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
	-1	1	-1	1	1	-1
	-1	1	-1	-1	-1	1
4	0	-1	0	0	0	0
5	0	0	-1	0	0	0
	0	0	0	-1	-1	0
	0	0	0	0	0	-1
6	1	-1	1	1	1	1
	1	-1	1	-1	-1	-1
	1	-1	-1	1	1	-1
	1	-1	-1	-1	-1	1
7	1	1	1	1	1	-1
	1	1	1	-1	-1	1
	1	1	-1	1	1	1
	1	1	-1	-1	-1	-1

Updated: 03/28/05

	w 2	k 3	m 7	N 21		
WP	z1	z2	x1	x2	x3	
1	-1	-1	1	1	-1	
	-1	-1	1	-1	1	
	-1	-1	-1	1	1	
	-1	-1	0	-1	-1	
	-1	-1	-1	0	-1	
	-1	-1	-1	-1	0	
2	-1	0	-1	-1	-1	
3	-1	1	1	1	1	
	-1	1	1	-1	-1	
	-1	1	-1	1	-1	
	-1	1	-1	-1	1	
4	0	-1	-1	-1	-1	
5	0	0	0	0	0	
6	1	-1	1	1	1	
	1	-1	1	-1	-1	
	1	-1	-1	1	-1	
	1	-1	-1	-1	1	
7	1	1	1	1	-1	
	1	1	1	-1	1	
	1	1	-1	1	1	
	1	1	-1	-1	-1	

Updated: 03/28/05

	w	k	m	N	
	3	1	12	15	
WP	z1	z2	z3	x1	
1	-1	-1	-1	-1	-1
2	-1	-1	1	1	1
3	-1	1	-1	-1	1
4	-1	1	1	1	1
5	-1	1	1	1	-1
6	0	0	0	0	1
	0	0	1	1	0
7	0	1	0	0	0
8	1	-1	-1	-1	1
	1	-1	1	1	1
9	1	-1	1	-1	-1
10	1	0	0	0	0
11	1	1	-1	1	1
	1	1	-1	-1	-1
12	1	1	1	1	-1

Updated: 03/28/05

	w	k	m	N	
	3	1	12	15	
WP	z1	z2	z3	x1	
1	-1	-1	-1	-1	-1
2	-1	-1	-1	1	1
3	-1	0	0	0	0
4	-1	1	-1	-1	1
5	-1	1	1	1	1
6	-1	1	1	1	-1
7	0	-1	0	0	0
8	0	0	0	-1	0
9	0	0	0	0	-1
	1	-1	-1	-1	1
10	1	-1	-1	1	1
	1	-1	1	1	-1
11	1	1	1	-1	1
	1	1	-1	-1	-1
12	1	1	1	1	-1

Updated: 03/28/05

	w	k	m	N	
	3	1	12	15	
WP	z1	z2	z3	x1	
1	-1	-1	-1	-1	0
2	-1	-1	-1	0	-1
3	-1	-1	-1	1	1
4	-1	0	0	-1	-1
5	-1	1	1	-1	1
6	-1	1	1	1	1
7	-1	1	1	1	-1
8	0	-1	-1	-1	-1
9	0	0	0	0	0
	1	-1	-1	-1	1
10	1	-1	-1	1	1
	1	-1	-1	1	-1
11	1	1	1	-1	1
	1	1	1	-1	-1
12	1	1	1	1	-1

Updated: 03/28/05

	w	k	m	N		
	3	2	12	21		
WP	z1	z2	z3	x1	x2	
1	-1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	1	1
2	-1	-1	1	1	1	-1
	-1	-1	1	1	-1	1
3	-1	1	-1	1	1	-1
	-1	1	-1	-1	-1	1
4	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
5	0	0	0	0	1	0
	0	0	0	0	0	1
6	0	0	1	0	0	0
	0	1	0	0	0	0
7	1	-1	-1	1	1	-1
8	1	-1	-1	-1	-1	1
	1	-1	1	1	1	1
9	1	-1	1	-1	-1	-1
10	1	0	0	0	0	0
11	1	1	-1	1	1	1
	1	1	-1	-1	-1	-1
12	1	1	1	1	1	-1
	1	1	1	-1	-1	1

Updated: 03/28/05

	w	k	m	N		
	3	2	12	21		
WP	z1	z2	z3	x1	x2	
1	-1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	1	1
2	-1	-1	1	1	1	-1
	-1	-1	1	1	-1	1
3	-1	0	0	0	0	0
4	-1	1	-1	-1	1	-1
5	-1	1	-1	-1	-1	1
	-1	1	1	1	1	1
6	-1	1	1	1	-1	-1
	0	-1	0	0	0	0
7	0	0	-1	0	0	0
8	0	0	0	0	-1	0
	0	0	0	0	0	-1
9	1	-1	-1	-1	1	-1
	1	-1	-1	-1	-1	1
10	1	-1	1	1	1	1
	1	-1	1	1	-1	-1
11	1	1	-1	-1	1	1
	1	1	-1	-1	-1	-1
12	1	1	1	1	1	-1
	1	1	1	1	-1	1

Updated: 03/28/05

	w	k	m	N		
	3	2	12	21		
WP	z1	z2	z3	x1	x2	
1	-1	-1	-1	-1	1	1
	-1	-1	-1	-1	0	-1
	-1	-1	-1	-1	-1	0
2	-1	-1	0	-1	-1	-1
3	-1	-1	1	1	1	-1
	-1	-1	1	-1	-1	1
4	-1	0	-1	-1	-1	-1
5	-1	1	-1	-1	1	-1
	-1	1	-1	-1	-1	1
6	-1	1	1	1	1	1
	-1	1	1	-1	-1	-1
7	0	-1	-1	-1	-1	-1
8	0	0	0	0	0	0
9	1	-1	-1	-1	1	-1
	1	-1	-1	-1	-1	1
10	1	-1	1	1	1	1
	1	-1	1	-1	-1	-1
11	1	1	-1	-1	1	1
	1	1	-1	-1	-1	-1
12	1	1	1	1	1	-1
	1	1	1	-1	-1	1

Updated: 03/28/05
Box & Draper Design

	w	k	m	N
	1	2	4	10
WP	z1	x1	x2	
1	-1	-1	-1	-1
	-1	1	-1	-1
	-1	-1	1	1
	-1	0.1925	0.1925	
2	-0.2912	1	1	1
3	0.1925	-1	0.1925	0.1925
	0.1925	0.1925	-1	-1
4	1	-1	-1	-1
	1	-0.2912	1	1
	1	1	-0.2912	

Updated: 03/28/05
Box & Draper Design

	w	k	m	N	
	1	3	4	15	
WP	z1	x1	x2	x3	
1	-1	-1	-1	-1	-1
	-1	1	-1	-1	-1
	-1	-1	1	-1	-1
	-1	-1	-1	1	1
	-1	-1	0.4114	0.4114	0.4114
	-1	0.4114	-1	0.4114	0.4114
	-1	0.4114	0.4114	-1	-1
2	-0.6502	1	1	1	1
3	0.4114	-1	-1	0.4114	0.4114
	0.4114	-1	0.4114	-1	-1
	0.4114	0.4114	-1	-1	-1
4	1	-1	-1	-1	-1
	1	-0.6502	1	1	1
	1	1	-0.6502	1	1
	1	1	1	-0.6502	-0.6502

Updated: 03/28/05
Box & Draper Design

	w	k	m	N		
	1	4	4	21		
WP	z1	x1	x2	x3	x4	
1	-1	-1	-1	-1	-1	-1
	-1	1	-1	-1	-1	-1
	-1	-1	1	-1	-1	-1
	-1	-1	-1	1	-1	-1
	-1	-1	-1	-1	1	1
	-1	-1	-1	0.5335	0.5335	0.5335
	-1	-1	0.5335	-1	0.5335	0.5335
	-1	-1	0.5335	0.5335	0.5335	-1
	-1	0.5335	-1	-1	0.5335	0.5335
	-1	0.5335	-1	0.5335	0.5335	-1
	-1	0.5335	0.5335	-1	-1	-1
2	-0.8108	1	1	1	1	1
3	0.5335	-1	-1	-1	0.5335	0.5335
	0.5335	-1	-1	0.5335	-1	-1
	0.5335	-1	0.5335	-1	-1	-1
	0.5335	0.5335	-1	-1	-1	-1
4	1	-1	-1	-1	-1	-1
	1	-0.8108	1	1	1	1
	1	1	-0.8108	1	1	1
	1	1	1	-0.8108	1	1
	1	1	1	1	1	-0.8108

Updated: 03/28/05
Box & Draper Design

	w	k	m	N
	2	1	9	10

WP	z1	z2	x1
1	-1	-1	-1
	-1	-1	1
2	-1	0.1925	0.1925
3	-1	1	-1
4	-0.2912	1	1
5	0.1925	-1	0.1925
6	0.1925	0.1925	-1
7	1	-1	-1
8	1	-0.2912	1
9	1	1	-0.2912

Updated: 03/28/05
Box & Draper Design

	w	k	m	N	
	2	2	9	15	
WP	z1	z2	x1	x2	
1	-1	-1	-1	-1	-1
	-1	-1	1	-1	-1
	-1	-1	-1	1	1
	-1	-1	0.4114	0.4114	0.4114
2	-1	0.4114	-1	0.4114	0.4114
	-1	0.4114	0.4114	-1	-1
3	-1	1	-1	-1	-1
4	-0.6502	1	1	1	1
	0.4114	-1	-1	0.4114	0.4114
5	0.4114	-1	0.4114	-1	-1
6	0.4114	0.4114	-1	-1	-1
7	1	-1	-1	-1	-1
8	1	-0.6502	1	1	1
9	1	1	-0.6502	1	1
	1	1	1	-0.6502	-0.6502

Updated: 03/28/05
Box & Draper Design

	w	k	m	N		
	2	3	9	21		
WP	z1	z2	x1	x2	x3	
1	-1	-1	-1	-1	-1	-1
	-1	-1	1	-1	-1	-1
	-1	-1	-1	1	-1	-1
	-1	-1	-1	-1	1	1
	-1	-1	-1	0.5335	0.5335	0.5335
	-1	-1	0.5335	-1	0.5335	0.5335
	-1	-1	0.5335	0.5335	-1	-1
2	-1	0.5335	-1	-1	0.5335	0.5335
	-1	0.5335	-1	0.5335	-1	-1
	-1	0.5335	0.5335	-1	-1	-1
3	-1	1	-1	-1	-1	-1
	-0.8108	1	1	1	1	1
	0.5335	-1	-1	-1	0.5335	0.5335
4	0.5335	-1	-1	0.5335	-1	-1
5	0.5335	-1	0.5335	-1	-1	-1
6	0.5335	0.5335	-1	-1	-1	-1
7	1	-1	-1	-1	-1	-1
8	1	-0.8108	1	1	1	1
9	1	1	-0.8108	1	1	1
	1	1	1	-0.8108	1	1
	1	1	1	1	-0.8108	-0.8108

Updated: 03/28/05
Box & Draper Design

	w	k	m	N	
	3	1	14	15	
WP	z1	z2	z3	x1	
1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	1
2	-1	-1	0.4114	0.4114	
3	-1	-1	1	-1	-1
4	-1	0.4114	-1	0.4114	
5	-1	0.4114	0.4114	-1	-1
6	-1	1	-1	-1	-1
7	-0.6502	1	1	1	1
8	0.4114	-1	-1	0.4114	
9	0.4114	-1	0.4114	-1	-1
10	0.4114	0.4114	-1	-1	
11	1	-1	-1	-1	-1
12	1	-0.6502	1	1	1
13	1	1	-0.6502	1	
14	1	1	1	-0.6502	

Updated: 03/28/05
Box & Draper Design

	w	k	m	N		
	3	2	14	21		
WP	z1	z2	z3	x1	x2	
1	-1	-1	-1	-1	-1	-1
	-1	-1	-1	-1	1	-1
	-1	-1	-1	-1	-1	1
	-1	-1	-1	-1	0.5335	0.5335
2	-1	-1	0.5335	-1	-1	0.5335
	-1	-1	0.5335	0.5335	0.5335	-1
3	-1	-1	1	-1	-1	-1
	-1	0.5335	-1	-1	-1	0.5335
4	-1	0.5335	-1	0.5335	-1	-1
5	-1	0.5335	0.5335	-1	-1	-1
6	-1	1	-1	-1	-1	-1
	-0.8108	1	1	1	1	1
7	0.5335	-1	-1	-1	-1	0.5335
8	0.5335	-1	-1	0.5335	-1	-1
9	0.5335	-1	0.5335	-1	-1	-1
10	0.5335	0.5335	-1	-1	-1	-1
11	1	-1	-1	-1	-1	-1
12	1	-0.8108	1	1	1	1
13	1	1	-0.8108	1	1	1
14	1	1	1	-0.8108	1	1
	1	1	1	1	1	-0.8108

HYBRID_D13

Updated: 03/28/05
D311A

	w	k	m	N	
	1	3	5	16	
WP	z1	x1	x2	x3	
1	-1.52	0	0	-1.05	
2	-1	-1	-1	0.6	
	-1	1	-1	0.6	
	-1	-1	1	0.6	
	-1	1	1	0.6	
3	0	0	0	1.73	
	0	0	0	-0.27	
	0	1.52	0	-1.05	
	0	-1.52	0	-1.05	
	0	0	1.52	-1.05	
	0	0	-1.52	-1.05	
4	1	-1	-1	0.6	
	1	1	-1	0.6	
	1	-1	1	0.6	
	1	1	1	0.6	
5	1.52	0	0	-1.05	

Updated: 03/28/05
D416B

	w	k	m	N	
	2	2	9	16	
WP	z1	z2	x1	x2	
1	-1.52	0	0	-1.05	
2	-1	-1	-1	0.6	
	-1	-1	1	0.6	
3	-1	1	-1	0.6	
	-1	1	1	0.6	
4	0	-1.52	0	-1.05	
5	0	0	0	1.73	
	0	0	0	-0.27	
	0	0	1.52	-1.05	
	0	0	-1.52	-1.05	
6	0	1.52	0	-1.05	
7	1	-1	-1	0.6	
	1	-1	1	0.6	
8	1	1	-1	0.6	
	1	1	1	0.6	
9	1.52	0	0	-1.05	

HYBRID_D24

Updated: 03/28/05
D628A

	w 2	k 4	m 9	N 28			
WP	z1	z2	x1	x2	x3	x4	
1	-2	0	0	0	0	-1.15	
2	-1	-1	-1	-1	-1	0.58	
	-1	-1	1	1	-1	0.58	
	-1	-1	1	-1	1	0.58	
	-1	-1	-1	1	1	0.58	
3	-1	1	1	-1	-1	0.58	
	-1	1	-1	1	-1	0.58	
	-1	1	-1	-1	1	0.58	
	-1	1	1	1	1	0.58	
4	0	-2	0	0	0	-1.15	
5	0	0	0	0	0	2.31	
	0	0	-2	0	0	-1.15	
	0	0	2	0	0	-1.15	
	0	0	0	-2	0	-1.15	
	0	0	0	2	0	-1.15	
	0	0	0	0	-2	-1.15	
	0	0	0	0	2	-1.15	
	0	0	0	0	0	0	
6	0	2	0	0	0	-1.15	
7	1	-1	1	-1	-1	0.58	
	1	-1	-1	1	-1	0.58	
	1	-1	-1	-1	1	0.58	
	1	-1	1	1	1	0.58	
8	1	1	-1	-1	-1	0.58	
	1	1	1	1	-1	0.58	
	1	1	1	-1	1	0.58	
	1	1	-1	1	1	0.58	
9	2	0	0	0	0	-1.15	

HYBRID_D33

Updated: 03/28/05
D628A

	w	k	m	N			
	3	3	15	28			
WP	z1	z2	z3	x1	x2	x3	
1	-2	0	0	0	0	-1.15	
2	-1	-1	-1	-1	-1	0.58	
	-1	-1	-1	1	1	0.58	
3	-1	-1	1	1	-1	0.58	
	-1	-1	1	-1	1	0.58	
4	-1	1	-1	1	-1	0.58	
	-1	1	-1	-1	1	0.58	
5	-1	1	1	-1	-1	0.58	
	-1	1	1	1	1	0.58	
6	0	-2	0	0	0	-1.15	
7	0	0	-2	0	0	-1.15	
8	0	0	0	0	0	2.31	
	0	0	0	-2	0	-1.15	
	0	0	0	2	0	-1.15	
	0	0	0	0	-2	-1.15	
	0	0	0	0	2	-1.15	
	0	0	0	0	0	0	
9	0	0	2	0	0	-1.15	
10	0	2	0	0	0	-1.15	
11	1	-1	-1	1	-1	0.58	
	1	-1	-1	-1	1	0.58	
12	1	-1	1	-1	-1	0.58	
	1	-1	1	1	1	0.58	
13	1	1	-1	-1	-1	0.58	
	1	1	-1	1	1	0.58	
14	1	1	1	1	-1	0.58	
	1	1	1	-1	1	0.58	
15	2	0	0	0	0	-1.15	

HYBRID_D34

Updated: 03/28/05
D746

	w	k	m	N				
	3	4	15	46				
WP	z1	z2	z3	x1	x2	x3	x4	
1	-2.21	0	0	0	0	0	0	-1.45
2	-1	-1	-1	-1	-1	-1	-1	0.44
	-1	-1	-1	1	-1	1	1	0.44
	-1	-1	-1	-1	1	1	1	0.44
	-1	-1	-1	1	1	-1	-1	0.44
3	-1	-1	1	-1	-1	1	1	0.44
	-1	-1	1	1	-1	-1	-1	0.44
	-1	-1	1	-1	1	-1	-1	0.44
	-1	-1	1	1	1	1	1	0.44
4	-1	1	-1	-1	-1	1	1	0.44
	-1	1	-1	1	-1	-1	-1	0.44
	-1	1	-1	-1	1	-1	-1	0.44
	-1	1	-1	1	1	1	1	0.44
5	-1	1	1	-1	-1	-1	-1	0.44
	-1	1	1	1	-1	1	1	0.44
	-1	1	1	-1	1	1	1	0.44
	-1	1	1	1	1	-1	-1	0.44
6	0	-2.21	0	0	0	0	0	-1.45
7	0	0	-2.21	0	0	0	0	-1.45
8	0	0	0	-2.21	0	0	0	-1.45
	0	0	0	2.21	0	0	0	-1.45
	0	0	0	0	-2.21	0	0	-1.45
	0	0	0	0	2.21	0	0	-1.45
	0	0	0	0	0	-2.21	0	-1.45
	0	0	0	0	0	2.21	0	-1.45
	0	0	0	0	0	0	0	3.23
	0	0	0	0	0	0	0	0
9	0	0	2.21	0	0	0	0	-1.45
10	0	2.21	0	0	0	0	0	-1.45
11	1	-1	-1	-1	-1	1	1	0.44
	1	-1	-1	1	-1	-1	-1	0.44
	1	-1	-1	-1	1	-1	-1	0.44
	1	-1	-1	1	1	1	1	0.44
12	1	-1	1	-1	-1	-1	-1	0.44
	1	-1	1	1	-1	1	1	0.44
	1	-1	1	-1	1	1	1	0.44
	1	-1	1	1	1	-1	-1	0.44
13	1	1	-1	-1	-1	-1	-1	0.44
	1	1	-1	1	-1	1	1	0.44
	1	1	-1	-1	1	1	1	0.44
	1	1	-1	1	1	-1	-1	0.44
14	1	1	1	-1	-1	1	1	0.44
	1	1	1	1	-1	-1	-1	0.44
	1	1	1	-1	1	-1	-1	0.44
	1	1	1	1	1	1	1	0.44
15	2.21	0	0	0	0	0	0	-1.45