Tables of Combinatorially Non-Isomorphic 18-run Ternary Orthogonal Arrays

E.M. Bird and Deborah J. Street

These are the ternary designs used in the manuscript

*D-optimal orthogonal array minus t run designs*

by Deborah J. Street and E.M. Bird.

The four designs with m=3.

|  |  |  |  |
| --- | --- | --- | --- |
| 001001010012020022100102110112121121200202211211220222 | 001001010012020022100102110111121122200202211212220221 | 000001010012021022101102110111120122200202211212220221 | 000000012012021021101101110110122122202202211211220220 |

The twelve designs with m=4

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| 001100110100012202020220100210201101112112101212200020222110211222012221 | 001000110101012002020222100210221101112012101211200020212112211222002221 | 001000110100012202010222100210211100112112101212200220202111211222012220 | 001000110100012202010222100210211101112012101212200220202111211222002221 | 001100120100012202010220100110201102112112101212200020222110211122022221 | 001000100102012202010221100110211100112012121212200220222111211122002220 |
| 001100110100012202020220100210201101111212101221200020222110212122012212 | 001000110101012002020222100210211100111212111220200020222112212122012210 | 001100120100012202010220100210201101111012111222200020212112212122022210 | 000100120101012002120220101010211102111012021221200020222111212222002211 | 000100120100012202110220101010211102111112001222200220202110212122012212 | 000000000122012202110211101210121101110112201220202120212110211022022202 |

The ten designs with m=5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 001110012201001012200201202200100101020211021112121210112120200002022121102211102202222211 | 001110012201001012200201202200100101020211022112111210112120200002022121102211102202122212 | 001110012201002012200201002201100101020111021112121210012122200022022021100211112202122212 | 001010011201022012100200002221100101022211101111201201112202200212020021002212112211222120 | 000110010001000011220221102222101121022011012112011202012101200212020221121212102200222110 |
| 000120010101000011220221102220101101022111011112001202212102200202020221121212122200122110 | 000120010101000011220221102220101101022111011112021202212100200202020221121212102200122112 | 000110012001001012200211202202101011021211022111101200012221200222020021102212112201022121 | 000110012001001012200211202202101001021111022111121200012221200222020221101212102201022121 | 000110012201000012210211002202101001021211022111111200112220200202020121102212102201222121 |

The eight designs with m=6

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| 001111001222010010012201020120022002100102102020110212112121121011121200200001202210211022211100220221222112 | 001111001222010012012200020120022001100100102021110211112122121010121202200002202210211020211101220221222112 | 001111001222010010012201020120022002100102102020110221112112121011121200200001202210211022211100220212222121 | 001111001222010012012200020120022001100100102021110221112112121010121202200002202210211020211101220211222122 |
| 000112001001010000011222022111022220101120102201110121112010120202121012200210202022211211212102220021221100 | 000121001012010000011221022110022202101100102211110112112001120220121022200202202020211210212122220011221101 | 000121001012010000011221022110022202101100102211110112112022120220121001200202202020211210212101220011221122 | 000111001222010002012210021100022021101001102120110221111112120010122202200200202012211020212101220122221211 |

The three designs with m=7

|  |  |  |
| --- | --- | --- |
| 001111100122220100102012201002012000220021100102010202011102121112121212101101212002200001220221002110220211100122022112221122 | 001111100122220100102012201002012000220021100102010202011102211112112212101101212002200001220221002110220211100122021212221212 | 000112100100120100000011222102211100222202101120010220111101212112010112020201210122200210220202202112110212102222002112211001 |