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Optimal Fractions of Two-level Factorials under a Baseline Parametrization

Two-level fractional factorial designs are considered under a baseline parametrization. The criterion of minimum aberration is formulated in this context and optimal designs under this criterion are investigated. The underlying theory as well as the concept of isomorphism turn out to be significantly different from their counterparts under orthogonal parametrization, and this is reflected in the optimal designs obtained.