

Forms of four-word indicator functions with implications to two-level factorial designs

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Abstract Indicator functions are new tools to study fractional factorial designs. In this paper, we study indicator functions with four words and provide possible forms of the indicator functions and explain their implications to two-level factorial designs.

Keywords Fractional factorial designs · Two-level factorial designs · Indicator functions · Words · Replicates · Non-regular factorial designs · Aliased effects · Orthogonal effects