



StatSoft®
Business White Paper

Plackett-Burman designs vs. Standard fractional factorial designs

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Question

2-level Screening. Designing an experiment. First you select the number of Factors/Runs and click OK. On the next dialog there is an info box with Design Summary including Resolution. For some of the Factors/Runs selections, the Resolution is not displayed. (For 11, 19, 23, 27, 35, 39, 43, and 47 Factors)

Answer

This is "as designed"; some of the screening designs are standard (fully saturated) fractional factorial designs, with a particular "resolution"; the others are Plackett Burman designs which are constructed differently, i.e., factors are not simply created by "assignment" to particular interactions. Hence, those designs are labeled "Plackett Burman design", and it is left to the user to consult the help to learn more about them....

