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Response surface designs where levels of some factors are difficult to change. (English)

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Summary: This article considers response surface designs in which the number of levels of some of the factors are constrained. Two general types of designs are examined: CUBE designs and STAR designs. The specific factor levels are chosen to give variance contours with a high level of sphericity, thus providing designs that are close to rotatable.

MSC:

[62K15](#) Factorial statistical designs

[62K99](#) Design of statistical experiments

Cited in 4 Documents

Keywords:

rotatability; second order models; composite designs; constrained factor space; response surface designs

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