

supersaturated designs

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aliased and consequently propose methods for constructing \$E(f_{\mathrm{NOD}})\$- and \$\chi^2\$optimal mixed-level SSDs without fully aliased columns, via equidistant designs and difference matrices. The methods can be easily performed and many new optimal mixed-level SSDs have been obtained. Furthermore, it is proved that the nonorthogonality between columns of the resulting design is well controlled by the source designs. A rather complete list of newly generated optimal mixed-level SSDs are tabulated for practical use.

Supersaturated design (SSD) has received much recent interest because of its potential in factor

screening experiments. In this paper, we provide equivalent conditions for two columns to be fully

On construction of optimal mixed-level

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