

A New Class of Generalized Group Divisible Designs and its Robustness

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Abstract

Generalized Group Divisible Designs have gained prominence in the theory of design and analysis of experiments. A new method of construction of generalized group divisible designs with s classes is presented in this article. The method is based on balanced incomplete block designs. Optimality, robustness and efficiency of generalized group divisible designs constructed using this method are also discussed.