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Research Paper

Construction of pairwise balanced design using 3ⁿ-factorial design

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ABSTRACT : A new procedure for construction of pair-wise variance and efficiency balanced design with equal replications and unequal block sizes is proposed using 3ⁿ-symmetrical factorial design with illustration. Further optimality of the constructed design has been checked and found it to be universally optimal.

KEY WORDS : Balanced incomplete block design, Pair-wise design, Variance balanced design, Efficiency balanced design, Universally optimal design, 3ⁿ-factorial design

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