

OPTIMAL CROSSOVER DESIGNS

by

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ABSTRACT

Results on optimal and efficient crossover designs are discussed, both for the comparison of direct treatment effects and for the comparison of carry-over effects. The discussion includes optimality results for strongly balanced designs, for balanced designs, and for a class of designs that is useful when the number of periods does not exceed the number of treatments. Special attention is given to the case of 2 treatments, where optimal dual-balanced designs are presented under two different assumptions for the error covariance matrix. (This paper was prepared for the Handbook of Statistics, Volume 13.)