

On a simplified approach to estimation in experiments with orthogonal block structure

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Abstract

The experiments with the orthogonal block structure form a wide class of designs having, under assumption of full randomization, the dispersion matrix of a special spectral form with unknown variance components. In the paper it is shown how the known estimation procedures of both the treatment parameters and variance components can be simplified. The approach proposed is direct, quite general and mainly uses the technique of orthogonal projection.

Keywords

Block designs, Row and column designs, Nested block designs, Orthogonal projectors, Stratum submodels.

References

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