

On nested block designs geometry

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Abstract

The nested block designs and block designs properties such as orthogonality, orthogonal block structure and general balance are examined using the concept of a commutative quadratic subspace and standard properties of orthogonal projectors. In this geometrical context the conditions for existence of the best linear unbiased estimators of treatment contrasts are also discussed.

Keywords

Projectors, Orthogonal block structure, General balance, Quadratic subspace, Commutativity.

References

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