Genealogical trees for segregated COBS

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Abstract

The crossing and nesting of segregated Commutative Orthogonal Block Structure, COBS, gives, see Ferreira et al. (2007) and Ferreira et al. (2010), segregated Commutative Orthogonal Block Structure. There are mixed models for which the Complete Sufficient Statistics, CSE, of estimable vectors are Best Linear Unbiased Estimator, BLUE, see Ferreira et al. (2010), and for which we can estimate all variance components even when the fixed effects part does not reduce to $1_n\mu$.

In Fonseca et al. (2006) we see that crossing and nesting of models are associative. Then we may use both operations to derive complex models from simpler ones. The structure and genesis of such models can, as we shall show, be presented through it's genealogical tree.

Keywords

Commutative Orthogonal Block Designs, Genealogical tree.

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