

Balanced incomplete block designs

[s.n.] - Balanced incomplete block designs with block size 9: part II

Sources of variation	Sum of squares	Degrees of freedom	Mean Square	F _{tj}
General Mean	$\frac{\sum r_j^2}{N}$	1	-	
Blocks	$\frac{b \sum \bar{r}_j^2}{k}$	b-1	$\frac{\sum \text{between blocks}}{b-1} = \frac{MS_{\text{between}}}{MS_B}$	$F_t = \frac{MS_{\text{between}}}{MS_B}$
Treatment	$\frac{\sum r_j^2 - \bar{r}^2}{k-N}$	b-1	$\frac{\sum \bar{r}_{ij}^2}{b-1} = MS_{\text{treat}}$	
Error	$SS_{\text{Error}} [\text{by subtraction}]$	N-b-1	$\frac{\sum r_{ij}^2}{N-b-1} = MS_E$	
Total	$\sum r_j^2$	N		

Source: Thompson (1974), Chapter 1.

Description: -

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Notes: Thesis (Ph.D.)--University of Toronto, 1955.

This edition was published in 1955



Filesize: 26.99 MB

Tags: #4.7

Generating Balanced Incomplete Block Designs (BIBD)

X b k Rows where no data are available are omitted.

Partially balanced incomplete block design

Fortunately, we were able to run experiments on 30 blocks of two.

Balanced incomplete block designs with block size 9: part II

Some of d textbooks I consulted includes A Walk Through Combinatorics : An Introduction to Enumeration and Graph Theory by Miklos Bona, The Theory of the Design of Experiments by D.

Solved: A Balanced Incomplete Block Design On Three Treatm..

For example, one of the only two nonisomorphic BTD 4,8;2,3,8;4,6 s blocks are columns is: 1 1 1 2 2 3 1 1 1 1 1 2 2 3 2 2 2 3 4 3 4 4 3 3 2 3 4 3 4 4 4 4 The of a BTD where the entries are the multiplicities of the elements in the blocks can be used to form a ternary error-correcting code analogous to the way binary codes are formed from the incidence matrices of BIBDs. With missing data or IBDs that are not orthogonal, even BIBD where orthogonality does not exist, the analysis requires us to use GLM which codes the data like we did previously. The OPTEX Procedure Design Number D-Efficiency A-Efficiency G-Efficiency Average Prediction Standard Error 1 89.

Generating Balanced Incomplete Block Designs (BIBD) « Software for Exploratory Data Analysis and Statistical Modelling

Let's look at an example.

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