

The Balanced Incomplete Block s^n Factorial Designs

M. Shamsuddin and Ali Al-Marshadi

King Abdulaziz University, Jeddah, Kingdom of Saudi Arabia

Abstract

The different types of Balanced Incomplete Block Designs in the shape of s^n factorial experiments in s blocks can be constructed systematically. We have proved that some of the BIB designs and some of Balanced Incomplete Block Factorial Designs are the alternative shapes of each other giving the same result, but the BIBFD provides r times more detailed information. Two examples are given.

Keywords: BIB design, factorial design, partial confounding, replicate.

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