Design of Experiments: An Introduction Based on Linear Models (Chapman & Hall/CRC Texts in Statistical Science)

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Offering deep insight into the connections between design choice and the resulting statistical analysis, **Design of Experiments: An Introduction Based on Linear Models** explores how experiments are designed using the language of linear statistical models. The book presents an organized framework for understanding the statistical aspects of experimental design as a whole within the structure provided by general linear models, rather than as a collection of seemingly unrelated solutions to unique problems.

The core material can be found in the first thirteen chapters. These chapters cover a review of linear statistical models, completely randomized designs, randomized complete blocks designs, Latin squares, analysis of data from orthogonally blocked designs, balanced incomplete block designs, random block effects, split-plot designs, and two-level factorial experiments. The remainder of the text discusses factorial group screening experiments, regression model design, and an introduction to optimal design. To emphasize the practical value of design, most chapters contain a short example of a real-world experiment. Details of the calculations performed using R, along with an overview of the R commands, are provided in an appendix.

This text enables students to fully appreciate the fundamental concepts and techniques of experimental design as well as the real-world value of design. It gives them a profound understanding of how design selection affects the information obtained in an experiment.

From reader reviews:

Michael Naylor:

Book is to be different per grade. Book for children right up until adult are different content. As you may know that book is very important for all of us. The book Design of Experiments: An Introduction Based on Linear Models (Chapman & Hall/CRC Texts in Statistical Science) ended up being making you to know about other knowledge and of course you can take more information. It is very advantages for you. The book Design of Experiments: An Introduction Based on Linear Models (Chapman & Hall/CRC Texts in Statistical Science) is not only giving you a lot more new information but also to be your friend when you sense bored. You can spend your personal spend time to read your e-book. Try to make relationship using the book Design of Experiments: An Introduction Based on Linear Models (Chapman & Hall/CRC Texts in Statistical Science). You never feel lose out for everything in the event you read some books.

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