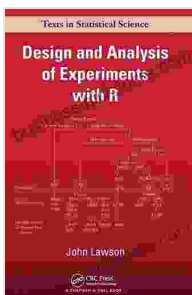


Design and Analysis of Experiments with Chapman & Hall/CRC Texts in Statistical Science

The design and analysis of experiments is a fundamental part of scientific research. It allows researchers to test hypotheses, determine the effects of different variables, and draw s about the world around us. This book provides a comprehensive guide to the design and analysis of experiments, with a focus on the use of statistical software.



Design and Analysis of Experiments with R (Chapman & Hall/CRC Texts in Statistical Science Book 115)

by John Lawson

★★★★☆ 4.5 out of 5

Language : English

File size : 19911 KB

Screen Reader : Supported

Print length : 620 pages



Chapter 1: to the Design of Experiments

This chapter provides an overview of the design of experiments. It covers the basic principles of experimental design, including the importance of randomization, replication, and blocking. It also discusses the different types of experimental designs, such as factorial designs, split-plot designs, and repeated measures designs.

Chapter 2: Analysis of Variance

This chapter covers the analysis of variance (ANOVA), which is a statistical technique used to compare the means of two or more groups. It discusses the different types of ANOVA models, including one-way ANOVA, two-way ANOVA, and three-way ANOVA. It also covers the assumptions of ANOVA and how to check for violations of these assumptions.

Chapter 3: Regression Analysis

This chapter covers regression analysis, which is a statistical technique used to predict the value of a dependent variable from one or more independent variables. It discusses the different types of regression models, including simple linear regression, multiple linear regression, and polynomial regression. It also covers the assumptions of regression analysis and how to check for violations of these assumptions.

Chapter 4: Design of Experiments for Special Populations

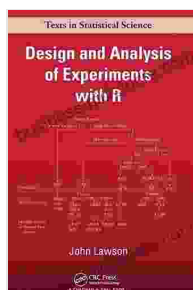
This chapter covers the design of experiments for special populations, such as clustered populations, longitudinal populations, and populations with missing data. It discusses the challenges involved in designing experiments for these populations and how to overcome these challenges.

Chapter 5: Advanced Topics in the Design and Analysis of Experiments

This chapter covers advanced topics in the design and analysis of experiments, such as fractional factorial designs, response surface methodology, and Bayesian experimental design. It also discusses the use of statistical software for the design and analysis of experiments.

This book provides a comprehensive guide to the design and analysis of experiments. It is an essential resource for researchers and students who

need to design and analyze experiments.



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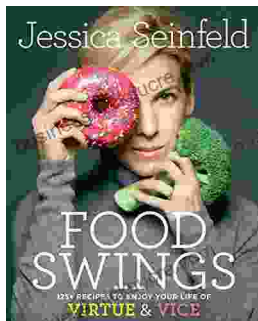
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