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Design And Analysis Of Experiments (Springer Texts In Statistics)

Design and Analysis of Experiments

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Springer
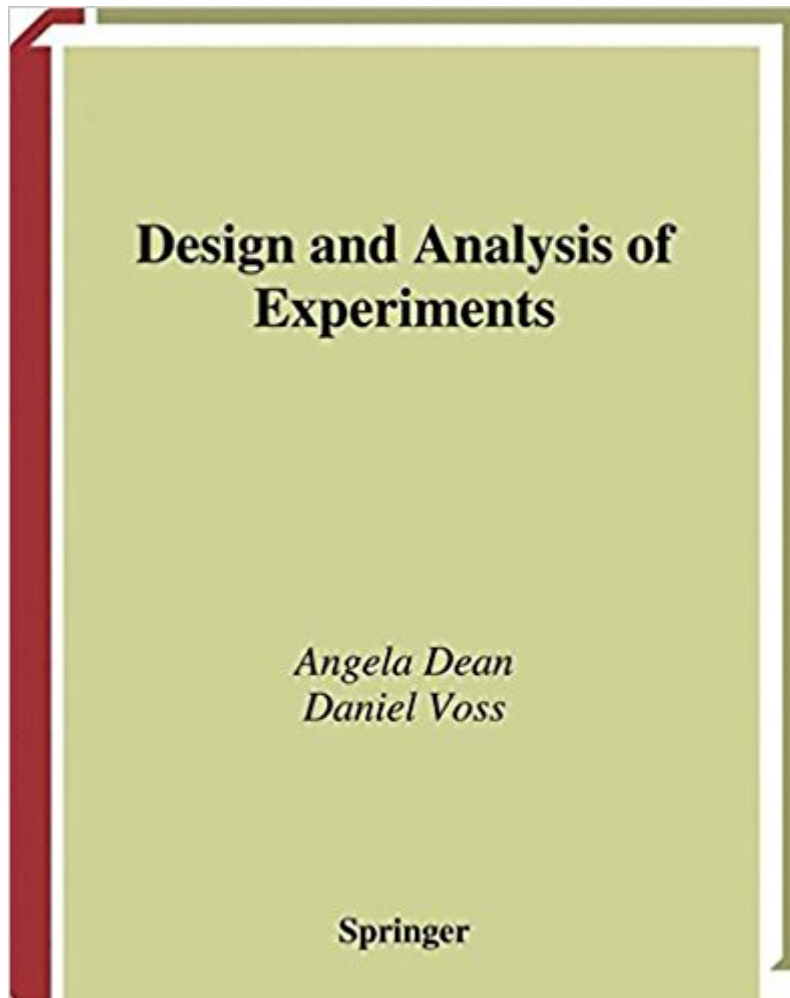
Synopsis

This book offers a step-by-step guide to the experimental planning process and the ensuing analysis of normally distributed data, emphasizing the practical considerations governing the design of an experiment. Data sets are taken from real experiments and sample SAS programs are included with each chapter. Experimental design is an essential part of investigation and discovery in science; this book will serve as a modern and comprehensive reference to the subject.

Book Information

Series: Springer Texts in Statistics

Hardcover: 742 pages

Publisher: Springer; Corrected edition (December 21, 2000)

Language: English

ISBN-10: 0387985611

ISBN-13: 978-0387985619

Product Dimensions: 7.5 x 1.6 x 9.2 inches

Shipping Weight: 3.4 pounds

Average Customer Review: 4.6 out of 5 stars   4 customer reviews

Best Sellers Rank: #540,457 in Books (See Top 100 in Books)   #30 inÃ Â Books > Science & Math > Mathematics > Research   #1763 inÃ Â Books > Textbooks > Science & Mathematics > Mathematics > Statistics   #2492 inÃ Â Books > Science & Math > Mathematics > Applied > Probability & Statistics

Customer Reviews

This is a readable book presenting the basic concepts, principles, and techniques of design and analysis of experiments. Written with a view to making it accessible to a wide audience, the authors make concerted efforts to avoid using calculus and linear algebra and, wherever needed, a low mathematical level is used for presentation. Rather than performing exploratory data analysis, the concentration here is on the use of prespecified models and preplanned analyses. Model assumptions are clearly stated, and checked through the use of residual plots rather than formal tests. All analyses are presented by using standard linear models under the assumption of normality. It is the experimentwise control of the error rate and confidence levels on which the presentation is focused as opposed to individual error rates and confidence levels. The popular "Taguchi techniques", used extensively in an industrial set-up, are included and appear throughout several chapters. The book contains enough material for an instructor to offer a course ranging

from one semester to one year. An attractive feature of this book is the inclusion of numerous real experiments which were either run by students or extracted from published articles---thus bringing home to students the practical utility of statistical designs. The authors have done a commendable job in presenting, explaining, and elucidating the fundamental concepts of design and analysis of experiments through illustrative examples. A carefully selected set of exercises is provided at the end of each chapter for students to test their understanding of the material. --Mathematical Reviews

I thought the book was awesome and organized very well. I liked the SAS code at the end of each chapter and the was the examples were worked through.

detail and specific.It is appropriate for graduate students.

This book is one of the best Exp.Design ever!It demonstrates the sas code in each design thus makes it easy to go through.

The previous user has made pen markings allover the book.Apart from that the book is in O K condition.

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