Optimum Experimental Designs, With SAS

Atkinson, Anthony and Donev, Alexander and Tobias, Randall

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- Returns policy
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- Authors
- Description
- Table of Contents

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Anthony Atkinson, Alexander Donev, and Randall Tobias

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Experiments on patients, processes or plants all have random error, mak methods essential for their efficient design and analysis. This book prese and methods of optimum experimental design, making them available th of SAS programs. Little previous statistical knowledge is assumed. The fi book stresses the importance of models in the analysis of data and introc squares fitting and simple optimum experimental designs. The second pa more detailed discussion of the general theory and of a wide variety of e book stresses the use of SAS to provide hands-on solutions for the const designs in both standard and non-standard situations. The mathematical designs is developed in parallel with their construction in SAS, so providi for the development of the subject. Many chapters cover self-contained t from science, engineering and pharmaceutical investigations, such as res designs, blocking of experiments, designs for mixture experiments and fc generalized linear models. Understanding is aided by the provision of "SA most chapters as well as by more traditional exercises and a fully suppor The authors are leading experts in key fields and this book is ideal for sta scientists in academia, research and the process and pharmaceutical indu

Readership: Students and researchers in statistics, and experimentalists pharmaceutical and chemical industries.

Contents

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