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Statistics for Experimenters - George E. P. Box—
By Stan and Jan Berenstain - Jun 28, 2020 # Read Statistics For Experimenters An Introduction To Design Data Analysis And Model Building #, statistics for experimenters an introduction to design data analysis and model building george ep box 44 out of 5 stars statistics for experimenters an

The second edition of Statistics for Experimenters focuses on applications in the physical, engineering, biological, and social sciences. From the beginning, the book's source of ideas is the scientific method itself and the need of the investigator to make his or her research as effective as possible through proper choice and conduct of experiments and appropriate analysis of data. After a problem is stated, appropriate statistical methods of design and analysis are discussed. And frequently, examples are presented for which standard mathematical assumptions are wrong, thus forcing the reader's attention onto the essential precautions necessary in the conduct of the experiment to ensure valid conclusions.

Introduces the philosophy of experimentation and the part that statistics plays in experimentation. Emphasizes the need to develop a capability for statistical thinking by using examples drawn from actual case studies.

This set contains Statistics for Experimenters: Design, Innovation, and Discovery, Second Edition by George E.P. Box, J. Stuart Hunter, and William G. Hunter (978-0-471-71813-0) and JMP(r) Version 6 Software Student Edition.

Bringing together both new and old results, Theory of Factorial Design: Single- and Multi-Stratum Experiments provides a rigorous, systematic, and up-to-date treatment of the theoretical aspects of factorial design. To prepare readers for a general theory, the author first presents a unified treatment of several simple designs, including completely randomized designs, block designs, and row-column designs. As such, the book is accessible to readers with minimal exposure to experimental design. With exercises and numerous examples, it is suitable as a reference for researchers and as a textbook for advanced graduate students. In addition to traditional topics and a thorough discussion of the popular minimum aberration criterion, the book covers many topics and new results not found in existing books. These include results on the structures of two-level resolution IV designs, methods for constructing such designs beyond the familiar foldover method, the extension of factorial designs to nonregular designs, the equivalence of generalized minimum aberration and minimum moment aberration, a Bayesian approach, and some results on nonregular designs. The book also presents a theory that provides a unifying framework for the design and analysis of factorial experiments with multiple strata (error terms) arising from complicated structures of the experimental units. This theory can be systematically applied to various structures of experimental units instead of treating each on a case-by-case basis.

"This is an engaging and informative book on the modern practice of experimental design. The authors' writing style is entertaining, the consulting dialogs are extremely enjoyable, and the technical material is presented brilliantly but not overwhelmingly. The book is a joy to read. Everyone who practices or teaches DOE should read this book." - Douglas C. Montgomery, Regents Professor, Department of Industrial Engineering, Arizona State University "It's been said: 'Design for the experiment, don't experiment for the design.' This book ably demonstrates this notion by showing how tailor-made, optimal designs can be effectively employed to meet a client's actual needs. It should be required reading for anyone interested in using the design of experiments in industrial settings." —Christopher J. Nachtsheim, Frank A. Donaldson Chair in Operations Management, Carlson School of Management, University of Minnesota This book demonstrates the utility of the computer-aided optimal design approach using real industrial examples. These examples address questions such as the following: How can I do screening inexpensively if I have dozens of factors to investigate? What can I do if I have day-to-day variability and I can only perform 3 runs a day? How can I do RSM cost effectively if I have categorical factors? How can I design and analyze experiments when there is a factor that can only be changed a few times over the study? How can I include both ingredients in a mixture and processing factors in the same study? How can I design an experiment if there are many factor combinations that are impossible to run? How can I make sure that a time trend due to warming up of equipment does not affect the conclusions from a study? How can I take into account batch information in when designing experiments involving multiple batches? How can I add runs to a batched experiment to resolve ambiguities? While answering these questions the book also shows how to evaluate and compare designs. This allows researchers to make sensible trade-offs between the cost of experimentation and the amount of information they obtain.

Praise for the First Edition "This book . . . is a significant addition to the literature onstatistical practice . . . should be of considerable interest tothose interested in these topics."—International Journal ofForecasting Recent research has shown that monitoring techniques alone areinadequate for modern Statistical Process Control (SPC), and thereexists a need for these techniques to be augmented by methods thatevidence when occasional process adjustment is necessary.Statistical Control by Monitoring and Adjustment, Second Editionpresents the relationship among these concepts and elementary ideasfrom Engineering Process Control (EPC), demonstrating how thepowerful synergistic association between SPC and EPC can solvemore problems that are frequently encountered in processmonitoring and adjustment. The book begins with a discussion of SPC as it was originallyconceived by Dr. Walter A. Shewhart and Dr. W. Edwards Deming.Subsequent chapters outline the basics of the new integration ofSPC and EPC, which is not available in other related books.Thorough coverage of time series analysis for forecasting, processdynamics, and non-stationary models is also provided, and thesections have been carefully written so as to require only anelementary understanding of mathematics. Extensive graphicalexplanations and computational tables accompany the numerousexamples that are provided throughout each chapter, and a helpfulselection of problems and solutions further facilitatesunderstanding. Statistical Control by Monitoring and Adjustment, Second Editionis an excellent book for courses on applied statistics andindustrial engineering at the upper-undergraduate and graduatelevels. It also serves as a valuable reference for statisticiansand quality control practitioners working in industry.

Celebrating the life of an admired pioneer in statistics In this captivating and inspiring memoir, world-renowned statistician George E. P. Box offers a firsthand account of his life and statistical work. Writing in an engaging, charming style, Dr. Box reveals the unlikely events that led him to a career in statistics, beginning with his job as a chemist conducting experiments for the British army during World War II. At this turning point in his life and career, Dr. Box taught himself the statistical methods necessary to analyze his own findings when there were no statisticians available to check his work. Throughout his autobiography, Dr. Box expertly weaves a personal and professional narrative to illustrate the effects his work had on his life and vice-versa. Interven between his research with time series analysis, experimental design, and the quality movement, Dr. Box recounts coming to the United States, his family life, and stories of the people who mean the most to him. This fascinating account balances the influence of both personal and professional relationships to demonstrate the extraordinary life of one of the greatest and most influential statisticians of our time. An Accidental Statistician also features: • Two forewords written by Dr. Box's former colleagues and closest confidants • Personal insights from more than a dozen statisticians on how Dr. Box has influenced and continues to touch their careers and lives • Numerous, previously unpublished photos from the author's personal collection An Accidental Statistician is a compelling read for statisticians in education or industry, mathematicians, engineers, and anyone interested in the life story of an influential intellectual who altered the world of modern statistics.

Oehlert's text is suitable for either a service course for non-statistics graduate students or for statistics majors. Unlike most texts for the one-term grad/upper level course on experimental design, Oehlert's new book offers a superb balance of both analysis and design, presenting three practical themes to students: • when to use various designs • how to analyze the results • how to recognize various design options Also, unlike other older texts, the book is fully oriented toward the use of statistical software in analyzing experiments.

A complete and well-balanced introduction to modern experimentaldesign Using current research and discussion of the topic along withclear applications, Modern Experimental Design highlightsthe guiding role of statistical principles in experimental designconstruction. This text can serve as both an applied introductionas well as a concise review of the essential types of experimentaldesigns and their applications. Topical coverage includes designs containing one or multiplefactors, designs with at least one blocking factor, split-unitsdesigns and their variations as well as supersaturated andPlackett-Burman designs. In addition, the text contains extensivetrainment of: Conditional effects analysis as a proposed general method ofanalysis Multiresponse optimization Space-filling designs, including Latin hypercube and uniformdesigns Restricted regions of operability and debarredobservations Analysis of Means (ANOM) used to analyze data from varioustypes of designs The application of available software, including Design-Expert,JMP, and MINITAB This text provides thorough coverage of the topic while alsointroducing the reader to new approaches. Using a large number ofreferences with detailed analyses of datasets, ModernExperimental Design works as a well-rounded learning tool forbeginners as well as a valuable resource for practitioners.

Drawing upon more than 30 years of experience in working with statistics, Dr. Richard J. Harris has updated A Primer of Multivariate Statistics to provide a model of balance between how-to and why. This classic text covers multivariate techniques with a taste of latent variable approaches. Throughout the book there is a focus on the importance of describing and testing one's interpretations of the emergent variables that are produced by multivariate analysis. This edition retains its conversational writing style while focusing on classical techniques. The book gives the reader a feel for why one should consider diving into more detailed treatments of computer-modeling and latent-variable techniques, such as non-recursive path analysis, confirmatory factor analysis, and hierarchical linear modeling. Throughout the book there is a focus on the importance of describing and testing one's interpretations of the emergent variables that are produced by multivariate analysis.