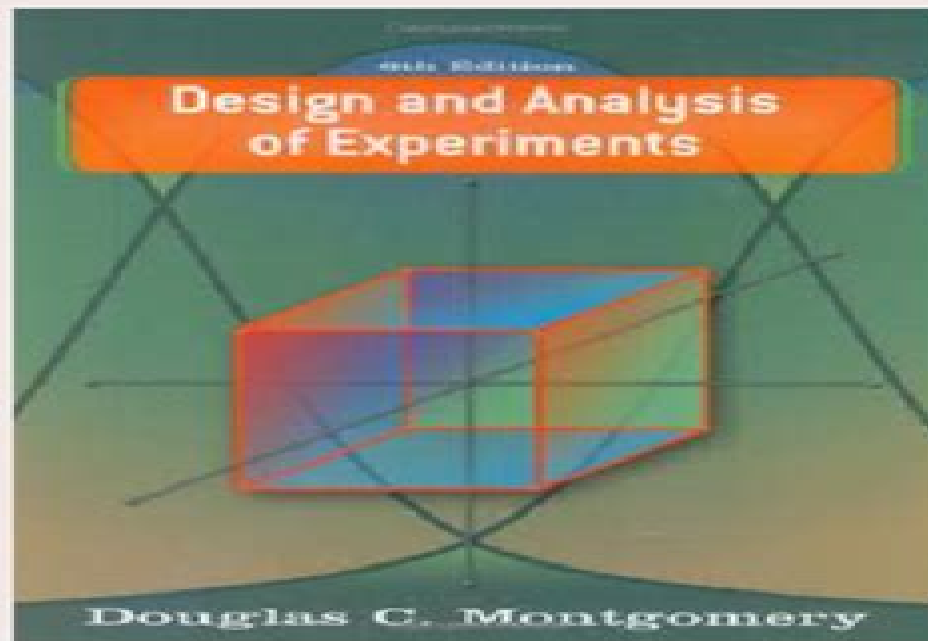


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Introduction to Statistical Methods for Financial Models Thomas A. Severini, 2017-07-06 This book provides an introduction to the use of statistical concepts and methods to model and analyze financial data. The ten chapters of the book fall naturally into three sections. Chapters 1 to 3 cover some basic concepts of finance focusing on the properties of returns on an asset. Chapters 4 through 6 cover aspects of portfolio theory and the methods of estimation needed to implement that theory. The remainder of the book, Chapters 7 through 10, discusses several models for financial data along with the implications of those models for portfolio theory and for understanding the properties of return data. The audience for the book is students majoring in Statistics and Economics as well as in quantitative fields such as Mathematics and Engineering. Readers are assumed to have some background in statistical methods along with courses in multivariate calculus and linear algebra.

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Mathematical Statistics Peter J. Bickel, Kjell A. Doksum, 2015-11-04 Mathematical Statistics Basic Ideas and Selected Topics Volume II presents important statistical concepts methods and tools not covered in the authors previous volume This second volume focuses on inference in non and semiparametric models It not only reexamines the procedures introduced in the first volume from a more sophisticated point o

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Statistical Regression and Classification Norman Matloff, 2017-09-19 This text provides a modern introduction to regression and classification with an emphasis on big data and R Each chapter is partitioned into a main body section and an extras section The main body uses math stat very sparingly and always in the context of something concrete which means that readers can skip the math stat content entirely if they wish The extras section is for those who feel comfortable with analysis using math stat

Designing Online Experiments for the Social Sciences Giuseppe Veltri, 2023-04-13 This book guides you through designing and implementing an online experiment in social science research in a clear and straightforward manner At an approachable pace it covers foundational principles of good experimental design before setting out best practice for how to design and conduct web experiments taking into account the specific methodological challenges of working online with

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Theory of Stochastic Objects Athanasios Christou Micheas, 2018-01-19 This book defines and investigates the concept of a random object To accomplish this task in a natural way it brings together three major areas statistical inference measure theoretic probability theory and stochastic processes This point of view has not been explored by existing textbooks one would need material on real analysis measure and probability theory as well as stochastic processes in addition to at least one text on statistics to capture the detail and depth of material that has gone into this volume Presents and illustrates random objects in different contexts under a unified framework starting with rudimentary results on random variables and random sequences all the way up to stochastic partial differential equations Reviews rudimentary probability and introduces statistical inference from basic to advanced thus making the transition from basic statistical modeling and estimation to advanced topics more natural and concrete Compact and comprehensive presentation of the material that will be useful to a reader from the mathematics and statistical sciences at any stage of their career either as a graduate student an instructor or an academician conducting research and requiring quick references and examples to classic topics Includes 378 exercises with the solutions manual available on the book's website 121 illustrative examples of the concepts presented in the text many including multiple items in a single example The book is targeted towards students at the master's and Ph D levels as well as academicians in the mathematics statistics and related disciplines Basic knowledge of calculus and matrix algebra is required Prior knowledge of probability or measure theory is welcomed but not necessary

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Statistics for Finance Erik Lindström, Henrik Madsen, Jan Nygaard Nielsen, 2018-09-03 Statistics for Finance develops students professional skills in statistics with applications in finance Developed from the authors courses at the Technical University of Denmark and Lund University the text bridges the gap between classical rigorous treatments of financial mathematics that rarely connect concepts to data and

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Design and Analysis of Experiments Angela Dean,Daniel Voss,Danel Draguljić,2017-04-05 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

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