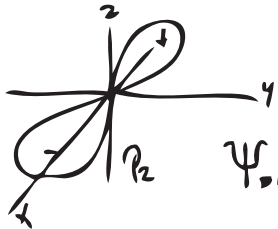


Mathematics, Statistics, Physics & Astronomy

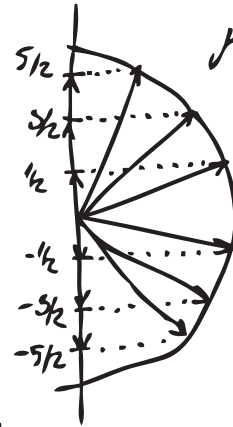
September to December 2020

$$\epsilon(\omega T) = \alpha \omega^3 \exp\left(\beta - \frac{\omega}{T}\right) \quad I = M \left(\frac{R^2}{2}\right) + M \left(\frac{R^2}{2}\right) = \frac{MR^2}{2}$$

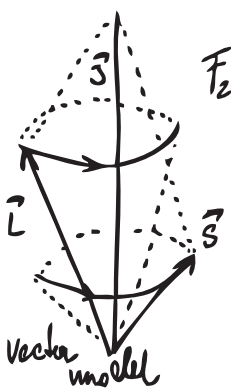
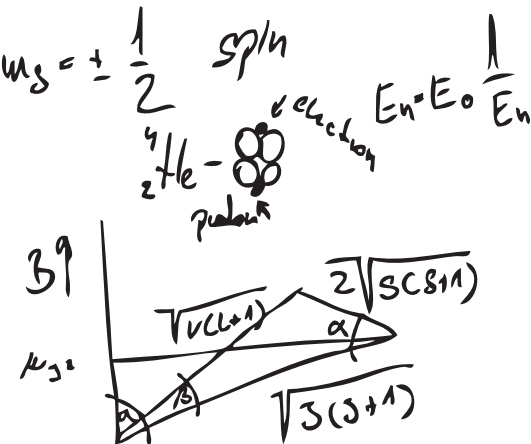


$$\Psi_{n,lm} = \frac{1}{\sqrt{2}} (\Psi_{n,l-1,m} + \Psi_{n,l+1,m})$$

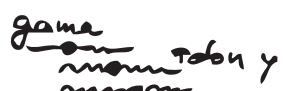
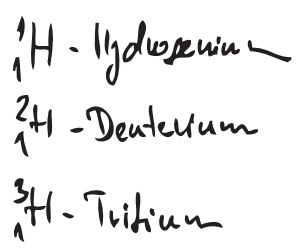
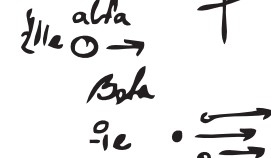
$$F = -\nabla U(\vec{r}) \quad \vec{F}_{32} = \vec{B}(\vec{r})$$



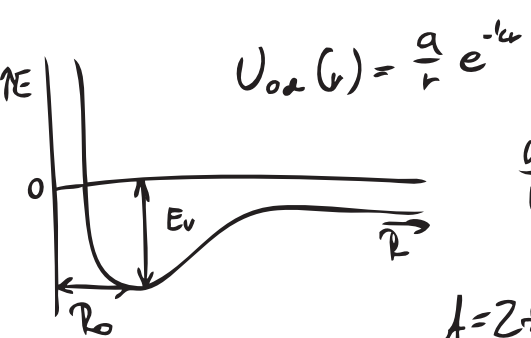
$$\mu_{sz} = \mu_B \cos \varphi \quad \vec{B} = \text{constant} \times \vec{r}$$



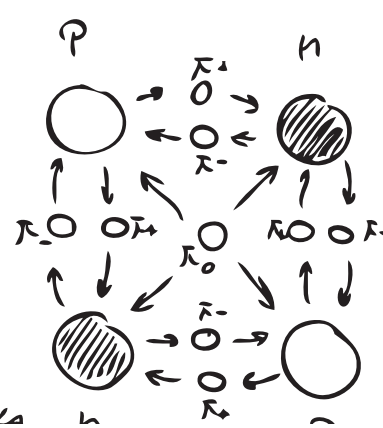
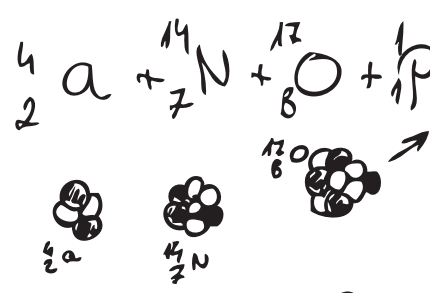
$$F_z = \mu_{sz} \frac{dB_z}{dz}$$



$$U_{\text{eff}}(R) = \frac{e^2}{4\pi\epsilon_0} \frac{1}{R}, \quad R \geq a_0$$



$$\frac{\alpha}{h}$$



$$Q = 2e = (A - N)e \quad \Delta m = E_v / c^2 \quad \Delta m = M - 1$$

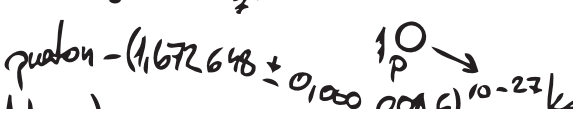




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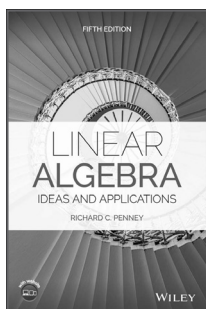
Lead Title



Textbook

All prices are correct as at press time but are subject to change without prior notice.

ALGEBRA

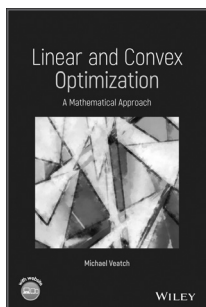
**Linear Algebra**

Ideas and Applications, 5th Edition

Richard Penney

A comprehensive introduction, *Linear Algebra: Ideas and Applications* provides a discussion of the theory and applications of linear algebra that blends abstract and computational concepts. With a focus on the development of mathematical intuition, the book emphasizes the need to understand both the applications of a particular technique and the mathematical ideas underlying the technique.

Reference • 9781119656920 • Nov 2020 • Cloth • 528pp • US\$124.95 • Previous ed: 9781118909584

**Mathematics of Convex and Linear Optimization**

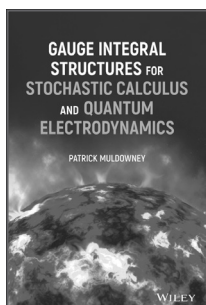
Michael Veatch

This book introduces and explains the mathematics behind convex and linear optimization, focusing on developing insights in problem complexity, modelling and algorithms. The main algorithms used in linear, integer, and convex optimization are presented in a mathematical style. The emphasis is on what makes a class of problems practically solvable and developing insight into algorithms geometrically. Principles of algorithm design are explained, making it accessible to those with no background in algorithms. A breadth of recent applications are presented to demonstrate the many areas in which optimization is successfully used. The process of formulating optimization problems is included throughout, both to develop the ability to formulate large problems and to appreciate that some formulations are more tractable.

Reference • 9781119664048 • Nov 2020 • Cloth • 480pp • US\$129.95



APPLIED MATHEMATICS

**Gauge Integral Structures for Stochastic Calculus and Quantum Electrodynamics**

Patrick Muldowney

Part I Stochastic Calculus

Stochastic Integration | Random Variation | Integration and Probability | Stochastic Processes | Brownian Motion | Stochastic Sums

Part II Field Theory

Gauges for Product Spaces | Quantum Field Theory | Quantum Electrodynamics

Part III Appendices

Appendix 1: Integration | Appendix 2: Theorem | Appendix 3: Option Pricing | Listings

Reference • 9781119595496 • Aug 2020 • Cloth • 200pp • US\$124.95

DISCRETE MATHEMATICS

**Integer Programming**

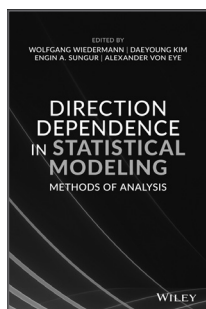
2nd Edition

Laurence Wolsey

This is an updated version of *Integer Programming* by Laurence A. Wolsey, which covers techniques for modeling and solving Integer Programming problems. The book has been significantly updated and revised since the first edition's publication over twenty years ago. The chapters on Column Generation have been completely rewritten. The chapter on Heuristics has been significantly updated, as well as the final chapter on "From Theory to Solutions". In the final chapter, the use of modelling languages and MIP solvers are brought up-to-date. A few new applications are discussed in Chapters 12 and 14. Additionally, the major commercial use of Linear Programming-based solvers is now to solve mixed integer programs. Therefore, it is now important to have a relatively simple book at a level that industrial users can learn from and use to solve their specific MIP problems.

Reference • 9781119606536 • Oct 2020 • Cloth • 384pp • US\$124.95 • Previous ed: 9780471283669





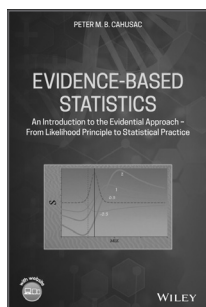
Direction Dependence in Statistical Modeling

Methods of Analysis

Wolfgang Wiedermann, Daeyoung Kim, Engin Sungur & Alexander von Eye

This edited book examines current methods for the statistical analysis of hypotheses that are compatible with direction dependence. The first part of this book introduces the fundamental concepts of direction dependence in statistical models. The authors provide a historical view on the origins of studying the direction of dependence in a regression line. Various classes of copulas with directional dependence properties are introduced. Part II is devoted to recent developments and advances in direction dependence modeling of continuous variables. The author demonstrates the benefits of incorporating concepts of direction dependence to identify causal models. Part III introduces direction dependence methods for the categorical variable case. Finally, Part IV is devoted to substantive theory and real-world applications. The author introduces custom dialogs and macros in SPSS to make direction dependence analysis accessible to applied empirical researchers.

Reference • 9781119523079 • Sep 2020 • Cloth • 448pp • US\$134.95



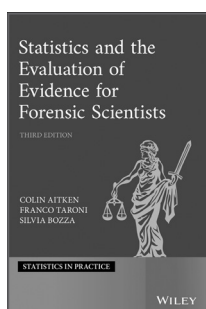
Evidence Based Statistics

An Introduction to the Evidential Approach – From Likelihood Principle to Statistical Practice

Peter Cahusac

An introductory text using the likelihood approach that targets science undergraduate students, particularly those in the biomedical, biological and social sciences. *Evidence Based Statistics* covers stopping rules, meta-analysis, equivalence testing, and contains exercises and questions at the end of each chapter, with answers and explanations provided.

Reference • 9781119549802 • Sep 2020 • Cloth • 256pp • US\$109.95



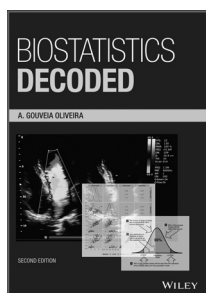
Statistics and the Evaluation of Evidence for Forensic Scientists

3rd Edition

Colin Aitken, Franco Taroni & Silvia Bozza

The third edition of *Statistics and the Evaluation of Evidence for Forensic Scientists* is fully updated to provide the latest research and developments in the use of statistical techniques to evaluate and interpret evidence. Courts are increasingly aware of the importance of proper evidence assessment when there is an element of uncertainty. Because of the increasing availability of data, the role of statistical and probabilistic reasoning is gaining a higher profile in criminal cases. That's why lawyers, forensic scientists, graduate students, and researchers will find this book an essential resource, one which explores how forensic evidence can be evaluated and interpreted statistically. It's written as an accessible source of information for all those with an interest in the evaluation and interpretation of forensic scientific evidence.

Reference • 9781119245223 • Dec 2020 • Cloth • 600pp • US\$105.00 • Previous ed: 9780470843673



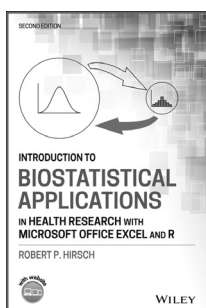
Biostatistics Decoded

2nd Edition

A Gouveia Oliveira

Biostatistics Decoded covered a large number of statistical methods that are mainly applied to clinical and epidemiological research, as well as a comprehensive discussion of study designs for observational research and clinical trials, two important concerns for the clinical researcher. In this second edition, new material is included covering statistical methods and study designs that are used to analyse research. Following the same methodology used in the first edition, the chapters are presented in two levels of detail, one for the reader who wishes only to understand the rationale behind each statistical method, and one for the reader who wishes to understand the computations

Reference • 9781119584209 • Oct 2020 • Cloth • 400pp • US\$120.00 • Previous ed: 9781119953371



Introduction to Biostatistical Applications in Health Research with Microsoft Office Excel and R

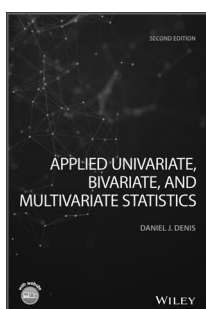
2nd Edition

Robert Hirsch

Focusing on a basic understanding of the methods and analyses in health research, *Introduction to Biostatistical Applications in Health Research with Microsoft® Office Excel® and R* provides statistical concepts for interpreting results using Excel. The book emphasizes the application of methods and presents the most common methodological procedures in health research, which includes multiple regression, ANOVA, ANCOVA, logistic regression, Cox regression, stratified analysis, life table analysis, and nonparametric parallels.

Reference • 9781119722595 • Nov 2020 • Cloth • 640pp • US\$129.95

DATA ANALYSIS



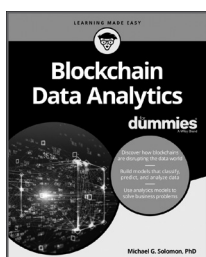
Applied Univariate, Bivariate, and Multivariate Statistics

2nd Edition

Daniel Denis

This second edition improves greatly on the first edition by making the book more accessible to a wider audience, through minimizing theoretical or technical jargon and maximizing conceptual understanding with easy applied software examples. As a book for applied social science, only the absolute necessary mathematics are used in motivating conceptual development and applications. This allows researchers and their students to apply these methods quickly, efficiently, and with relative ease without having to wade through dense technical arguments. Assuming only minimal prior exposure to statistics, by completion the reader will have a solid intuitive grasp of introductory univariate to relatively advanced multivariate statistical methods and be able to apply them efficiently and effectively using software.

Reference • 9781119583042 • Dec 2020 • Cloth • 500pp • US\$129.95 • Previous ed: 9781119465812

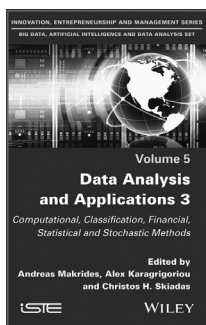


Blockchain Data Analytics For Dummies

Michael Solomon

Blockchain came to prominence as the disruptive technology that made cryptocurrencies work. Now, data pros are using blockchain technology for faster real-time analysis, better data security, and more accurate predictions. *Blockchain Data Analytics For Dummies* is your quick-start guide to harnessing the potential of blockchain. Inside this book, technologists, executives, and data managers will find information and inspiration to adopt blockchain as a big data tool. Blockchain expert Michael G. Solomon shares his insight on what the blockchain is and how this new tech is poised to disrupt data. Set your organization on the cutting edge of analytics, before your competitors get there!

Trade • 9781119651772 • Sep 2020 • Paper • 328pp • US\$29.95



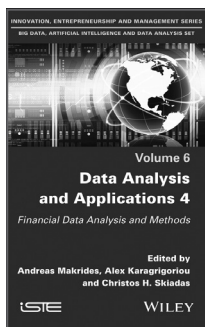
Data Analysis and Applications 3

Computational, Classification, Financial, Statistical and Stochastic Methods

Andreas Makrides, Alex Karagrigoriou & Christos H. Skiadas

Data analysis as an area of importance has grown exponentially, especially during the past couple of decades. This can be attributed to a rapidly growing computer industry and the wide applicability of computational techniques, in conjunction with new advances of analytic tools. This book is a collective work by a number of leading scientists, analysts, engineers, mathematicians and statisticians who have been working at the forefront of data analysis. The chapters included in this volume represent a cross-section of current concerns and research interests in these scientific areas. The material is divided into two parts: Computational Data Analysis, and Classification Data Analysis, with methods for both – providing the reader with both theoretical and applied information on data analysis methods, models and techniques and appropriate applications.

Reference • 9781786305343 • May 2020 • Cloth • 262pp • US\$144.95



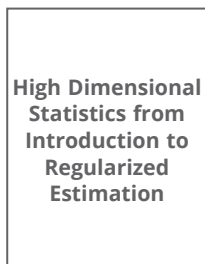
Data Analysis and Applications 4

Financial Data Analysis and Methods

Andreas Makrides, Alex Karagrigoriou & Christos H. Skiadas

The chapters included in this volume represent a cross-section of current concerns and research interests in these scientific areas. The material is divided into three parts: Financial Data Analysis and Methods, Statistics and Stochastic Data Analysis and Methods, and Demographic Methods and Data Analysis- providing the reader with both theoretical and applied information on data analysis methods, models and techniques and appropriate applications.

Reference • 9781786306241 • May 2020 • Cloth • 310pp • US\$154.95

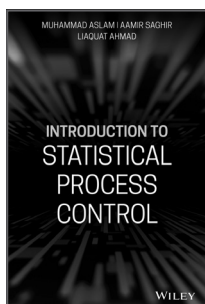


High Dimensional Statistics from Introduction to Regularized Estimation

Johannes Lederer

An Introduction to Regularized Estimation in High Dimensions considers statistical theory, methods, and algorithms for large and complex data. The main focus is on regularized estimators, which are at the cusp of entering the statistical toolkits of almost all scientific disciplines. This book provides clear expositions, motivational introductions to each chapter, rigorous step-by-step proofs, and comprehensive exercise sets with fully worked out solutions. These features make this book ideal for graduate level courses. It also contains results and insights that are new altogether, including improvements of existing theories and novel connections among different methods, which are organized into special chapters for those wishing to advance their reading in the field.

Reference • 9781119536888 • Nov 2020 • Cloth • 288pp • US\$100.00

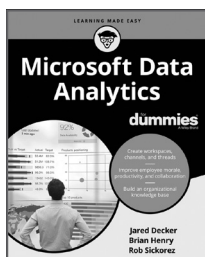


Introduction to Statistical Process Control

Muhammad Aslam, Aamir Saghir & Liaquat Ahmad

Introduction to Statistical Process Control examines various types of control charts that are typically used by engineering students and practitioners. This book helps readers develop a better understanding of the history, implementation, and use-cases. Students are presented with varying control chart techniques, information, and roadmaps to ensure their control charts are operating efficiently and producing specification-confirming products. This is the essential text on the theories and applications behind statistical methods and control procedures.

Reference • 9781119528456 • Aug 2020 • Cloth • 304pp • US\$119.95

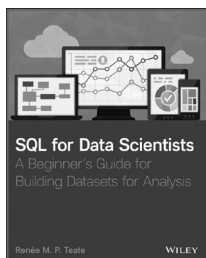


Microsoft Data Analytics For Dummies

Jared Decker, Brian Henry & Rob Sickorez

Microsoft leads the software industry in analytics with some of the most comprehensive and powerful data analytics tools currently available. The demand for people who can use and understand these tools remains sky-high and increases every day. In *Microsoft Data Analytics For Dummies*, the authors have created a straightforward and easy to understand introduction to readers who want to leverage Microsoft products for data analysis. Written by experienced data infrastructure architects, *Microsoft Data Analytics For Dummies* seeks to flatten and shorten the learning curve typically associated with data analytics. The book includes information about Microsoft data tools, including Microsoft Excel, Power Pivot, Power Query and Power BI – perfect for non-developers who have a need to use data to support their business decisions without looping in technical personnel.

Trade • 9781119696360 • Sep 2020 • Paper • 320pp • US\$29.95



SQL for Data Scientists

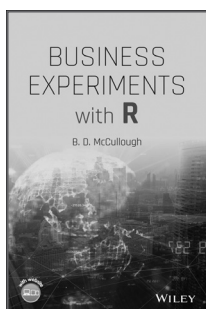
A Beginner's Guide for Building Datasets for Analysis

Renee Teate

Jump-start your career as a data scientist—learn to develop datasets for exploration, analysis, and machine learning. *SQL for Data Scientists: A Beginner's Guide for Building Datasets for Analysis* is a resource that's dedicated to the Structured Query Language (SQL) and dataset design skills that data scientists use most. Aspiring data scientists will learn how to construct datasets for exploration, analysis, and machine learning. You can also discover how to approach query design and develop SQL code to extract data insights while avoiding common pitfalls. In this book, author Renee Teate shares knowledge gained during a 15-year career working with data, in roles ranging from database developer to data analyst to data scientist. She guides you through SQL code and dataset design concepts from an industry practitioner's perspective, moving your data scientist career forward!

Trade • 9781119669364 • Nov 2020 • Paper • 350pp • US\$49.95

DATA MINING STATISTICS

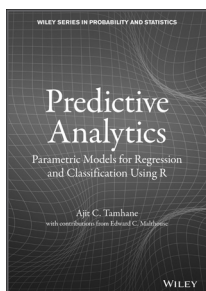


Business Experiments with R

B McCullough

This book is a guide on experiment designs for business students. It is aimed at an underserved market in business statistics textbooks – a book for the “second course” which addresses issues like small samples, lack of normality, and data confounding. The authors focus on the A/B tests (and their variants) that are widely used in industry, but not typically covered in business statistics or data science textbooks. The book is organized so that it can be used both with general business students, such as MBA or executive education students, and with the growing number of master's programs in Business Analytics and Marketing Analytics.

Reference • 9781119689706 • Nov 2020 • Cloth • 384pp • US\$129.95



Predictive Analytics

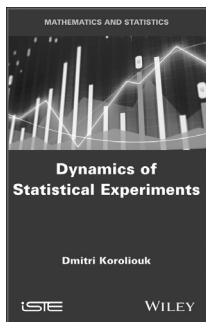
Parametric Models for Regression and Classification Using R

Ajit Tamhane

This book covers a broad range of topics in parametric regression and classification including multiple regression, logistic regression (binary and multinomial), discriminant analysis, Bayesian classification, generalized linear models and Cox regression for survival data. The book also gives brief introductions to some modern computer-intensive methods such as classification and regression trees (CART), neural networks and support vector machines. *Predictive Analytics* is organized so that it can be used by both advanced undergraduate or masters students with applied interests and by doctoral students who also want to learn the underlying theory. This is done by devoting the main body of the text of each chapter with basic statistical methodology illustrated by real data examples. Derivations, proofs and extensions are relegated to the Technical Notes section of each chapter, Exercises are also divided into theoretical and applied. Answers to selected exercises are provided.

Reference • 9781118948897 • Sep 2020 • Cloth • 352pp • US\$134.95

GENERAL & INTRODUCTORY STATISTICS



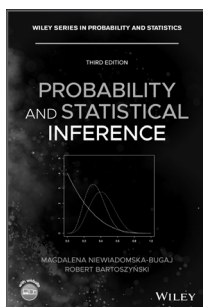
Dynamics of Statistical Experiments

Dimitri Koroliouk

This book is devoted to the system analysis of statistical experiments, determined by the averaged sums of sampling random variables. The dynamics of statistical experiments are given by difference stochastic equations with a specified regression function of increments – linear or nonlinear. The statistical experiments are studied by the sample volume increasing ($N \rightarrow \infty$), as well as in discrete-continuous time by the number of stages increasing ($k \rightarrow \infty$) for different conditions imposed on the regression function of increments. The proofs of limit theorems employ modern methods for the operator and martingale characterization of Markov processes, including singular perturbation methods. Furthermore, they justify the representation of a stationary Gaussian statistical experiment with the Markov property, as a stochastic difference equation solution, applying the theorem of normal correlation. The statistical hypotheses verification problem is formulated in the classification of evolutionary processes, which determine the dynamics of the predictable component. The method of stochastic approximation is used for classifying statistical experiments.

Reference • 9781786305985 • May 2020 • Cloth • 224pp • US\$134.95

PROBABILITY & MATHEMATICAL STATISTICS

**Probability and Statistical Inference**

3rd Edition

Magdalena Niewiadomska-Bugaj & Robert Bartoszyński

Probability and Statistical Inference, Third Edition is a user-friendly book that stresses the comprehension of concepts instead of the simple acquisition of a skill or tool. It provides a mathematical framework that permits students to carry out various procedures using R. Its unique approach to problems allows readers to integrate the knowledge gained from the text, thus, enhancing a more complete and honest understanding of the topic. The book focuses on the development of intuition and understanding through diversity of experience. New to this edition, in addition to R code, are a chapter on Bayesian statistics, additional concepts introduced, and new and improved problems and mini-projects. The book is intended for upper-level undergraduates or first year graduate students in the in statistics or related disciplines such as mathematics or engineering, where exposure to statistics is needed.

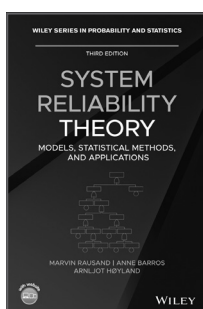
Reference • 9781119243809 • Oct 2020 • Cloth • 736pp • US\$139.95 • Previous ed: 9780471696933

QUALITY, PRODUCTIVITY & RELIABILITY

**Statistical Quality Control***Bhisham Gupta*

This book provides a basic understanding of statistical quality control (SQC) and demonstrates how to apply the techniques of SQC to improve the quality of products in various sectors. Focusing on the learning and understanding of statistical quality control for two potential audiences – second or third year undergraduates and practitioners in the field – Statistical Quality Control guides readers to use R to create and analyze charts and discusses aspects of Six Sigma Methodology, all requiring no previous knowledge of statistical theory. There are also data sets available in both MINITAB and R format.

Reference • 9781119671633 • Dec 2020 • Cloth • 400pp • US\$124.95

**System Reliability Theory**

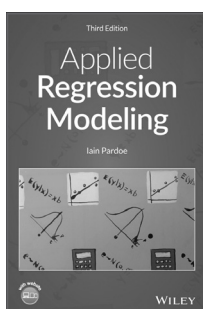
Models, Statistical Methods, and Applications, 3rd Edition

Anne Barros, Marvin Rausand & Arnljot Høyland

Since the publication of the *Second Edition* of this popular textbook, new standards have changed the focus of reliability engineering, which introduced new concepts and terminology. Consequently, the *Third Edition* of *System Reliability Theory: Models, Statistical Methods, and Applications* has been thoroughly rewritten and updated to meet current standards. With an updated practical focus, incorporation of industry feedback, and many new examples based on real-world industry problems and data, this book begins with an introduction on reliability engineering and is followed by coverage on failures and failure analysis. The authors address failure models and qualitative system analysis and present new coverage on state space models. In addition, a new chapter on component reliability and availability is followed by a chapter on systems of independent components. Component importance is covered followed by a chapter on dependent failures, which now includes a discussion on causes of common cause failures, explicit versus implicit modeling, and the Beta-factor model.

Reference • 9781119373520 • Oct 2020 • Cloth • 848pp • US\$174.95 • Previous ed: 9780471471332

REGRESSION ANALYSIS

**Applied Regression Modeling**

3rd Edition

Iain Pardoe

This book provides a concise treatment of statistical regression modelling together with three detailed case studies for undergraduate students and professional master students with limited background in calculus. All sections have been retained from the second edition, with the author clarifying sections and reworking the more challenging topics. The author has added more end-of-chapter exercises and has added coverage of several new topics. All methods are clearly illustrated using datasets that are available in a variety of formats on the book's supplemental website. Detailed instructions for applying the methods are provided for many software packages, including SPSS, Minitab, DataDesk, SAS, JMP, R, EvIEWS, Stata, Statistica, and Excel. The book introduces modeling extensions that illustrate more advanced regression techniques, including logistic regression, Poisson regression, discrete choice models, multilevel models, Bayesian modeling, and time series and forecasting. The writing is clear and careful, avoiding overly technical language.

Reference • 9781119615866 • Nov 2020 • Cloth • 384pp • US\$128.95 • Previous ed: 9781118097281

Applications of Quantile Regression of Experimental and Cross Section Data using EViews

Applications of Quantile Regression of Experimental and Cross Section Data using EViews

I Gusti Ngurah Agung

Quantile regression aims at estimating either the conditional median or other quantiles of the response variable. Essentially, quantile regression is the extension of linear regression and we use it when the conditions of linear regression are not applicable. *Applications of Quantile Regression of Experimental and Cross Section Data using EViews* presents examples of statistical results of various QRs in order to display their richer characteristics, based on the LS-Regression, Ordinary-Regressions, or Mean-Regressions. It offers instructions how to develop the best possible QRs and how to present more advanced analysis by using the Quantile Process, the Wald test, the Redundant Variables test, Omitted Variables Test, and forecasting, as well as to draw the best conclusions from results. A mathematical knowledge of quantile regression is not necessary so this book is applicable to students and lecturers in statistics, data analysis and engineering.

Professor Agung has taught mathematical statistics and applied statistics since 1960 at Makassar Public University, Hassanudin University, and from 2006 at the Graduate School of Planning, Strategy and Public Policy, as well as Graduate School of Management, at the University of Indonesia. His research has focused on finding expected or unpredictable statistical results based on various models of time series, cross-section, and panel data models.

Reference • 9781119715177 • Dec 2020 • Cloth • 496pp • US\$120.00

STATISTICAL SOFTWARE / SPSS



IBM SPSS Essentials

Managing and Analyzing Social Sciences Data, 2nd Edition

John Kulas, Renata Garcia Prieto Palacios Roji & Adam Smith

This book covers the nuts and bolts of SPSS usage and data entry for students learning SPSS, with a significant emphasis on managing and manipulating data. This book contains three parts. Part I provides an introduction to SPSS, discusses navigating SPSS, and contains a section on knowing your data. Next, Part II covers creating and understanding your data. In this part, readers learn how to get data into SPSS, how to manipulate the data, and also learn about descriptive statistics. Finally, Part III focuses on inferential statistics. This part includes a discussion of hypothesis testing, one-sample Z-test, T-Tests, as well as ANOVAs and correlations and regression. The authors include five appendices for further reading. These appendices discuss dealing with real-world data, troubleshooting, advanced statistics, and workbook activities. The workbook activities contain end of chapter questions and answers. Throughout the book there are now graphs such as histograms, bar plots, and scatterplots, chi-square and crosstabs, and more screen shots.

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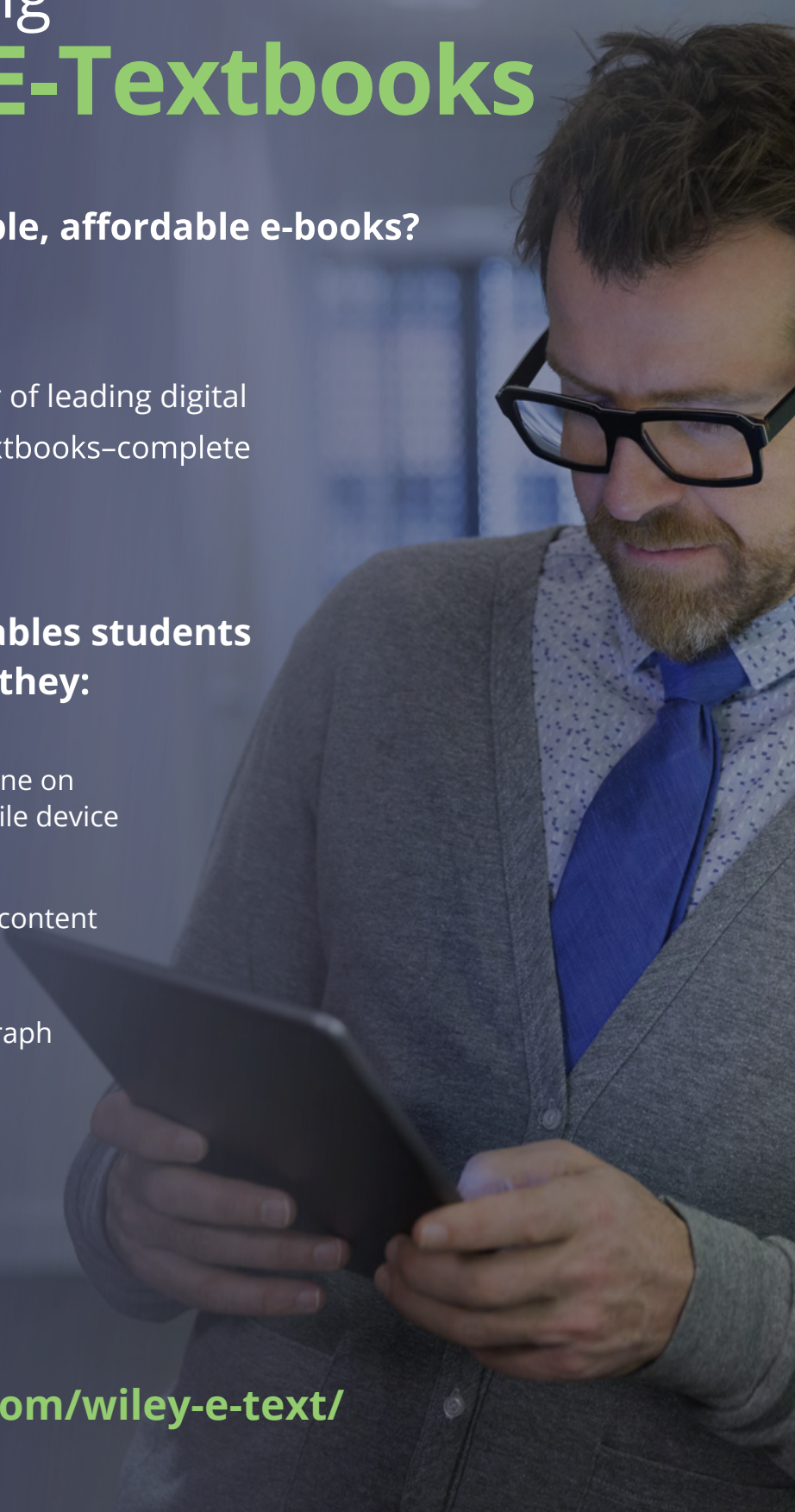
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Trade • 9781119716242 • Nov 2020 • Paper • 408pp • US\$29.95 • Previous ed: 9781118911495

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china_marketing@wiley.com

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Indonesia

Ruko Golden Madrid
Blok D 21 Bumi Serpong Damai
Jl. Letnan Sutopo, Mekar Jaya, Serpong,
Kota Tangerang Selatan, Banten 15310
Indonesia
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Japan

Koishikawa Sakura Bldg. 4F
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Tokyo 112-0002, Japan
Tel: (81) 3 3830 1232
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South Korea

Suite #405, BR Elitel Building,
101, Dongmak-ro, Mapo-gu,
Seoul (04068), Rep of Korea
Tel: (82) 2 338 9700
Fax: (82) 2 337 1929
akorea@wiley.com

Taiwan

4F, 218 Sec 2 JinShan S Road
Taipei 10643, Taiwan
Tel: (886) 2 2357 3900
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Singapore

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