



Mathematics, Statistics, Physics & Astronomy

May to August 2020



Table of Contents

K-12 School

Mathematics & Statistics/K-12	1
-------------------------------	---

Mathematics

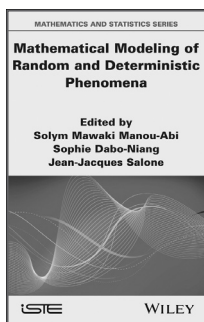
Applied Mathematics	1
Calculus	2
Geometry & Topology	3
Mathematical Analysis	3
Number Theory	3
Numerical Methods	4

Physics & Astronomy

Astronomy & Astrophysics	5
General & Introductory Physics	5
Theoretical Physics	6

Statistics

Applied Probability & Statistics	6
Computational & Graphical Statistics	7
Data Analysis	7
Regression Analysis	8
Survey Research Methods & Sampling	8



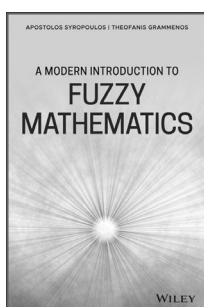
Mathematical Modeling of Random and Deterministic Phenomena

Solym Mawaki Manou-Abi, Sophie Dabo-Niang & Jean-Jacques Salome

Mathematical Modeling of Random and Deterministic Phenomena is aimed at expert readers, young researchers, plus graduate and advanced undergraduate students who are interested in probability, statistics, modeling and mathematical analysis. This book highlights mathematical research interests that appear in real life, such as the study and modeling of random and deterministic phenomena. As such, it provides current research in mathematics, with applications in biological and environmental sciences, ecology, epidemiology and social perspectives. The book is organized in two main parts. The first is devoted to advanced mathematical problems regarding epidemic models; predictions of biomass; space-time modeling of extreme rainfall; modeling with the piecewise deterministic Markov process, etc. The second is devoted to a modelization with interdisciplinarity in ecological, socio-economic, epistemological, demographic and social problems.

Reference • 9781786304544 • Mar 2020 • Cloth • 350pp • US\$164.95

APPLIED MATHEMATICS

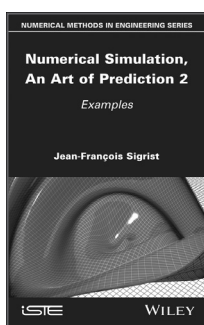


A Modern Introduction to Fuzzy Mathematics

Apostolos Syropoulos & Theophanes Grammenos

Fuzzy mathematics forms a branch of mathematics related to fuzzy set theory and fuzzy logic. It started in 1965 after the publication of Lotfi Asker Zadeh's seminal work *Fuzzy Sets*. *A Modern Introduction to Fuzzy Mathematics* provides a concise presentation of fuzzy mathematics with proofs of important results, beginning with the basics and then moving on to discuss more advanced topics such as fuzzy algebras, fuzzy graph theory, and fuzzy topologies. This book aims to fill a gap in fuzzy mathematics literature by presenting recent developments and also discussing what has been done so far in the field.

Reference • 9781119445289 • Jun 2020 • Cloth • 384pp • US\$119.95



Numerical Simulation, an Art of Prediction

Examples, Volume 2

Jean-François Sigrist

Numerical simulation is a technique of major importance in various technical and scientific fields. Simulation involves the mathematical modeling of the real world, coupled with the computing power offered by modern technology. Designed to perform virtual experiments, digital simulation can be considered as an "art of prediction". Embellished with a rich iconography and based on the testimony of researchers and engineers, this book shines a light on this little-known art. It is the second of two volumes and gives examples of the uses of numerical simulation in various scientific and technical fields: agriculture, industry, Earth and universe sciences, meteorology and climate studies, energy, biomechanics and human and social sciences.

Reference • 9781786304322 • Jan 2020 • Cloth • 374pp • US\$164.95



Peak Performance Culture

The Five Metrics of Organizational Excellence

Dave Mitchell

Following his successful books, *The Power of Understanding People* and *The Power of Understanding Yourself*, *Peak Performance Culture: The Five Metrics of Organizational Excellence* provides the reader with a detailed road map for creating a high performing culture in any company or association. Mitchell addresses five critical factors – factors that can be monitored much like the dashboard of a car - that predict the success of any organization. As was the case with his previous two books, *Peak Performance Culture* builds concepts and provides a new and deeper application of these ideas complete with exercises that readers can use to apply what they have learned immediately.

Trade • 9781119581499 • Aug 2020 • Cloth • 256pp • US\$24.95

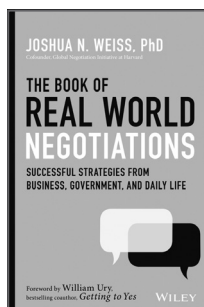
**Stochastic
Methods for
Credit Risk**

Stochastic Methods for Credit Risk

Guglielmo d'Amico, Jacques Janssen & Raimondo Manca

As Non-Life Insurance models are strictly connected with stochastic processes, the main aim of this book is to show how classical and recent advanced stochastic models can be used to improve the stochastic approach in non-life insurance for which contracts can be characterized by time and risk: this constitutes precisely the core business of stochastic processes. This book presents various stochastic methods applied to non-life insurance, in order to price, value, hedge and manage these contracts and particularly to model the various claim processes.

Reference • 9781848219007 • Jul 2020 • Cloth • 200pp • US\$119.95



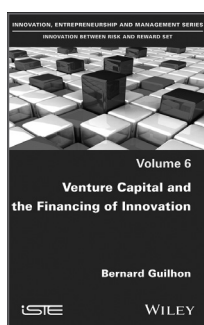
The Book of Real-World Negotiations

Successful Strategies from Business, Government, and Daily Life

Joshua Weiss & William L. Ury

This unique book can help you change your approach to negotiation by learning key strategies and techniques from actual cases. Through hard to find real world examples you will learn exactly *how* to effectively and productively negotiate. *The Book of Real World Negotiations: Successful Strategies from Business, Government and Daily Life* shines a light on real world negotiation examples and cases, rather than discussing hypothetical scenarios. It reveals what is possible through preparation, persistence, creativity, and taking a strategic approach to your negotiations. Many of us enter negotiations with skepticism and without understanding how to truly negotiate well. Because we lack knowledge and confidence, we may abandon the negotiating process prematurely or agree to deals that leave value on the table.

Trade • 9781119616191 • Aug 2020 • Cloth • 224pp • US\$26.95



Venture Capital and the Financing of Innovation

Bernard Guilhon & Sandra Montchaud

The funding of innovative projects that are fundamentally ambiguous often leads to situations where decision-making is difficult. However, decision-making can be improved by practices such as syndication and step-by-step funding. The dynamic of this industry requires us to consider the economic and institutional variables that make this system coherent in English-speaking countries, but conversely reduce it to a privileged niche by the leading authorities in Europe and France.

This book proposes two guiding ideas. The first idea presents innovation as a very uncertain process. This modifies the decision-making in the entrepreneurial ecosystem, with intervention upstream in regards to stronger foundations, evaluations and selection of projects. The second idea is that the actors hold onto partial knowledge in a context where their attention span is limited. These cognitive limitations need the formation of networks, and lead to mutual and complementary dependency relations.

Reference • 9781786300690 • Jan 2020 • Cloth • 196pp • US\$119.95

CALCULUS

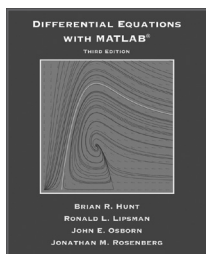
**An Introduction
to the Finite
Element Method
(FEM) for
Differential
Equations**

An Introduction to the Finite Element Method (FEM) for Differential Equations

Mohammad Asadzadeh

The finite element method (FEM) is a numerical method for solving problems of engineering and mathematical physics. Typical problem areas of interest include structural analysis, heat transfer, fluid flow, mass transport, and electromagnetic potential. The analytical solution of these problems generally require the solution to boundary value problems for partial differential equations. The objective of this book is two-fold. The first objective is to construct, as much as possible, stable finite element schemes without affecting accuracy. The second objective is to derive convergence of the numerical schemes up to maximal available regularity of the exact solution. *An Introduction to the Finite Element Method (FEM) for Differential Equations* covers physical descriptions, mathematical environments, approximation techniques, and finite element approximations for differential equations. It contains rigorous mathematical proofs combined with approximation concepts of finite element methods, as well as computational exercises. This is a great resource for upper undergraduates and graduates in applied math, engineering and natural sciences, as well as researchers in industry and academia in need of finite element approximation techniques.

Reference • 9781119671640 • Aug 2020 • Cloth • 400pp • US\$114.95



Differential Equations With MATLAB

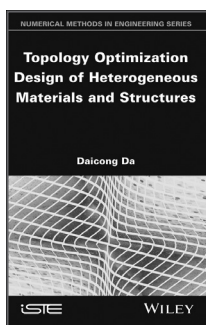
3rd Edition

William Boyce

This supplement helps instructors move towards an earlier use of numerical and geometric methods, place a greater emphasis on systems (including nonlinear ones), and increase discussions of both the benefits and possible pitfalls in numerical solution of ODEs. By providing an introduction to the software that is integrated with the relevant mathematics, *Differential Equations with MATLAB* can perfectly complement and enhance other texts from Wiley. Since the third edition of *Differential Equations with MATLAB* first appeared in 2012, there have been many changes and enhancements to MATLAB and Simulink. These include addition of live scripts, new plotting commands, and major changes to the Symbolic Math Toolbox. This revised version brings the text completely up to date with the 2019a release of MATLAB.

Textbook • 9781118376805 • Sep 2019 • Paper • 304pp • US\$53.95 • Previous ed: 9780471718123

GEOMETRY & TOPOLOGY



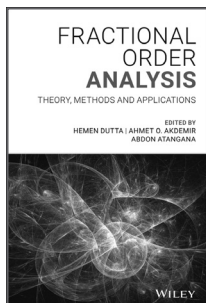
Topology Optimization Design of Heterogeneous Materials and Structures

Daicong Da

This book pursues optimal design from the perspective of mechanical properties and resistance to failure caused by cracks and fatigue. The book abandons the scale separation hypothesis and takes up phase-field modeling, which is at the cutting edge of research and is of high industrial and practical relevance. Part 1 starts by testing the limits of the homogenization-based approach when the size of the representative volume element is non-negligible compared to the structure. The book then introduces a non-local homogenization scheme to take into account the strain gradient effects. Using a phase field method, Part 2 offers three significant contributions concerning optimal placement of the inclusion phases. Respectively, these contributions take into account fractures in quasi-brittle materials, interface cracks and periodic composites. The topology optimization proposed has significantly increased the fracture resistance of the composites studied.

Reference • 9781786305589 • Feb 2020 • Cloth • 200pp • US\$119.95

MATHEMATICAL ANALYSIS



Fractional Order Analysis

Theory, Methods and Applications

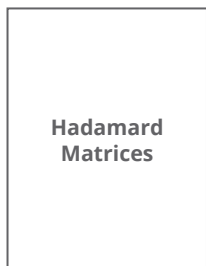
Hemen Dutta, Ahmet O. Akdemir & Abdon Atangana

The book contains new research findings in fractional order analysis. Different tools and techniques from the field of fractional order analysis are found to be extremely helpful in practical applications because such analyses can help in developing mathematical methods or models more accurately. The book covers topics such as: conformable fractional operators, local fractional proportional derivatives, fractional derivative and integral operators, different inequalities via several fractional environments, different type of fractional integral operators, fractional-order chaotic model, flow models in fractional environment, multi-dimensional fractional order models, fractional modelling of the transmission dynamics of Influenza, and Zika virus model with various fractional derivatives. Using this book, readers can find several useful, relevant and connected topics in one place, which is necessary for crucial understanding of research problems of an applied nature.

This book can be a reference for courses in Mathematical Analysis at undergraduate and postgraduate levels.

Reference • 9781119654162 • Aug 2020 • Cloth • 336pp • US\$134.95

NUMBER THEORY



Hadamard Matrices

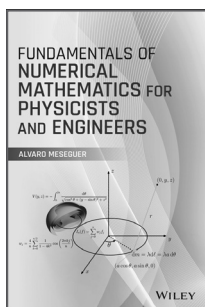
Constructions using Number Theory and Algebra

Jennifer Seberry & Mieko Yamada

This book, which is the update of a 1992 survey by the same authors, summarizes some known constructions of Hadamard Matrices that are based on algebraic and number theoretic methods. Hadamard matrices are of practical use in signal processing and design experiments among other applications. This book begins with basic definitions, and is followed by a chapter on Gauss sums, Jacobi sums and relative Gauss sums. Next, the authors discuss plug-in matrices, arrays, and sequences. M-structure is covered next, along with Menon Hadamard differences sets and regular Hadamard matrices. The authors then discuss Paley difference sets, skew-Hadamard matrices, and skew Hadamard differences sets. Finally, the book concludes with a discussion of asymptotic existence of Hadamard matrices and more on maximal determinant matrices.

Dr. Mieko Yamada, PhD, is Professor Emeritus of Kanazawa University, Japan. Dr. Yamada graduated from Tokyo Woman's Christian University and has taught at Tokyo Woman's Christian University, Konan University, Kyushu University and Kanazawa University.

Reference • 9781119520245 • Jul 2020 • Cloth • 384pp • US\$114.95



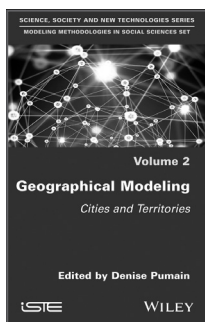
Fundamentals of Numerical Mathematics for Physicists and Engineers

Alvaro Meseguer

Fundamentals of Numerical Mathematics for Physicists and Engineers introduces the fundamentals of numerical mathematics and illustrates its applications to solve problems in a wide variety of disciplines in Physics and Engineering, such as classical mechanics, electromagnetism, quantum physics, and equilibrium thermodynamics.

The book is presented in two parts, each of which has been designed as a one-semester course, and it includes computational practicals in Matlab, problems and exercise sets at the end of each section. This is an excellent book for advanced undergraduate or graduate students in physics, mathematics, or engineering. It will also benefit students in other scientific fields in which numerical methods may be required such as chemistry or biology.

Reference • 9781119425670 • Apr 2020 • Cloth • 416pp • US\$129.95



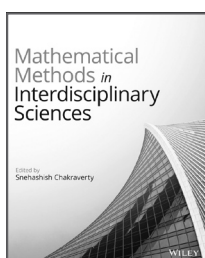
Geographical Modeling

Cities and Territories

Denise Pumain

The modeling of cities and territories has progressed greatly in the last 20 years. This is firstly due to geographic information systems, followed by the availability of large amounts of georeferenced data – both on the Internet and through the use of connected objects. In addition, the rise in performance of computational methods for the simulation and exploration of dynamic models has facilitated advancement. *Geographical Modeling* presents previously unpublished information on the main advances achieved by these new approaches. Each of the six chapters builds a bibliographic review and precisely describes the methods used, highlighting their advantages and discussing their interpretations. They are all illustrated by many examples. The book also explains with clarity the theoretical foundations of geographical analysis, the delicate operations of model selection, and the applications of fractals and scaling laws. These applications include gaining knowledge of the morphology of cities and the organization of urban transport, and finding new methods of building and exploring simulation models and visualizations of data and results.

Reference • 9781786304902 • Mar 2020 • Cloth • 200pp • US\$119.95

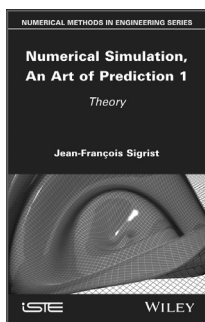


Mathematical Methods in Interdisciplinary Sciences

Snehashish Chakraverty

This book examines the interface between mathematics and applied sciences. The editor examines the present and future needs for the interaction between various science and engineering areas. This edited book brings together the cutting-edge research on mathematics, combining various fields of science and engineering. The book begins with an introduction to computing and modeling. Next, computation and modeling trends are covered, along with chapters on structural static and vibration problems, heat conduction and diffusion problems, and fluid dynamics problems. Soft computing and machine intelligence based modeling are also discussed, along with bio medical problems. The book concludes with a chapter on modeling in mining, electrical, electronics, and chemical problems. This book is a reference for students and researchers in various fields of engineering such as computer, mechanical, civil, aerospace, electrical, and chemical, as well as and other sciences such as applied mathematics, physics, chemistry, and life sciences.

Reference • 9781119585503 • Jun 2020 • Cloth • 482pp • US\$124.95



Numerical Simulation, an Art of Prediction

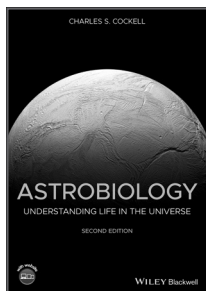
Theory, Volume 1

Jean-François Sigrist

Numerical simulation is a technique of major importance in various technical and scientific fields. Used to understand diverse physical phenomena or to design everyday objects, it plays a major role in innovation in the industrial sector. Whilst engineering curricula now include training courses dedicated to it, numerical simulation is still not well-known in some economic sectors, and even less so among the general public. Simulation involves the mathematical modeling of the real world, coupled with the computing power offered by modern technology. Designed to perform virtual experiments, digital simulation can be considered as an “art of prediction”. Embellished with a rich iconography and based on the testimony of researchers and engineers, this book shines a light on this little-known art. It is the first of two volumes and focuses on the principles, methods and industrial practice of numerical modeling.

Reference • 9781786304315 • Mar 2020 • Cloth • 266pp • US\$144.95

ASTRONOMY & ASTROPHYSICS

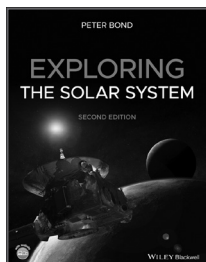
**Astrobiology**

Understanding Life in The Universe, 2nd Edition

Charles Cockell

The revised and updated second edition of *Astrobiology* offers an introductory text that explores the structure of living things, the formation of the elements required for life in the Universe, the biological and geological history of the Earth, and the habitability of other planets. Written by a noted expert on the topic, the book examines many of the major conceptual foundations in astrobiology, which cover a diversity of traditional fields including chemistry, biology, geosciences, physics, and astronomy. For students of life sciences, physics, astronomy and related disciplines, the updated edition of *Astrobiology* is an essential introductory text that includes recent advances to this dynamic field.

Reference • 9781119550358 • May 2020 • Paper • 624pp • US\$TBA • Previous ed: 9781118913338

**Exploring The Solar System**

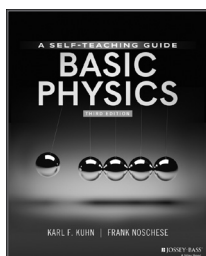
2nd Edition

Peter Bond

An exciting and authoritative account of the Second Golden Age of solar system exploration. Award-winning author Peter Bond provides an up-to-date, in-depth account of the sun and its family in the 2nd edition of *Exploring the Solar System*. This new edition brings together the discoveries and advances in scientific understanding made during the last 60 years of solar and planetary exploration, using research conducted by the world's leading geoscientists, astronomers, and physicists. *Exploring the Solar System, 2nd Edition* is an ideal introduction for non-science undergraduates and anyone interested in learning about our small corner of the Milky Way galaxy.

Reference • 9781119384908 • Apr 2020 • Paper • 552pp • US\$97.95 • Previous ed: 9781444351088

GENERAL & INTRODUCTORY PHYSICS

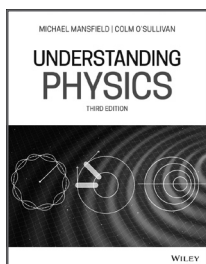
**Basic Physics**

A Self-Teaching Guide, 3rd Edition

Frank Noschese & Karl F. Kuhn

Basic Physics: A Self-Teaching Guide, Third Edition is the most practical, complete, and easy-to-use guide available for understanding physics and the physical world. Even if you don't consider yourself a "science" person, this book helps make learning key concepts a pleasure, not a chore. Whether you need help in a course, want to review the basics for an exam, or simply have always been curious about such physical phenomena as energy, sound, electricity, light, and color, you've come to the right place!

Trade • 9781119629900 • Jul 2020 • Paper • 304pp • US\$24.95 • Previous ed: 9780471134473

**Understanding Physics**

3rd Edition

Michael Mansfield & Colm O'Sullivan

The revised and updated third edition of *Understanding Physics* presents a comprehensive introduction to college-level physics. Written with today's students in mind, this compact text covers the core material required within an introductory course in a clear and engaging way. The authors – noted experts on the topic – offer an understanding of the physical universe and present the mathematical tools used in physics. Worked examples and links to problems, designed to be both illustrative and challenging, are included throughout. The links to over 600 problems and their solutions, as well as links to more advanced sections, interactive problems, simulations and videos may be made by typing in the URL's which are noted throughout the text or by scanning the micro QR codes given alongside the URL's.

Reference • 9781119519508 • May 2020 • Paper • 648pp • US\$70.00

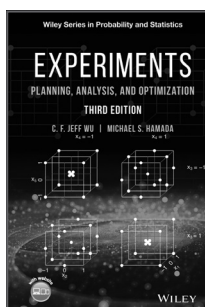
THEORETICAL PHYSICS

**Problem Solving
in Theoretical
Physics**
Problem Solving in Theoretical Physics*Serguei Burmistrov, Yury M. Belousov & Alexei I. Ternov*

The book helps students mastering their theoretical physics courses by posing advanced and even challenging problems and providing their detailed solutions. It is divided into three areas: classical theory of fields, quantum mechanics and statistical physics. For each of these fields, the authors give a concise overview of the background and then provide problems (in total more than 450) at different levels of difficulty. The second, larger part of the book contains the detailed solutions to all problems, with discussions of their physical significance and possibilities for generalization and transfer to other fields.

Reference • 9783527413966 • Jul 2020 • Paper • 568pp • US\$110.22

APPLIED PROBABILITY & STATISTICS

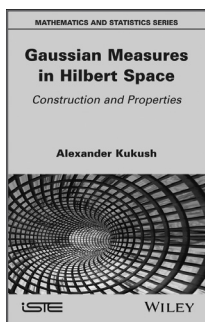
**Experiments**

Planning, Analysis, and Optimization, 3rd Edition

C. F. Jeff Wu & Michael S. Hamada

This Third Edition covers design of experiments and integrates computer experiments with other design topics. The main changes in this Third Edition are two new chapters, one on computer experiments, the other on optimal design. This book starts each chapter with a real experiment. Then, the authors develop the needed tools in subsequent sections. Finally, the chapter ends with the application of these tools to the experiment. Each chapter includes exercises, and the authors have added new exercise problems with selected solutions to the Instructor's solutions manual. This is an ideal book for design of experiments courses at the upper-undergraduate and graduate levels. It is also a valuable resource for practicing engineers and statisticians.

Reference • 9781119470106 • Jul 2020 • Cloth • 784pp • US\$134.95 • Previous ed: 9780471699460

**Gaussian Measures in Hilbert Space**

Construction and Properties

Alexander Kukush

At the nexus of probability theory, geometry and statistics, a Gaussian measure is constructed on a Hilbert space in two ways: as a product measure and via a characteristic functional based on Minlos-Sazonov theorem. As such, it can be utilized for obtaining results for topological vector spaces. *Gaussian Measures* contains the proof for Fernique's theorem and its relation to exponential moments in Banach space. Furthermore, the fundamental Feldman-Hajek dichotomy for Gaussian measures in Hilbert space is investigated. Applications in statistics are also outlined. In addition to chapters devoted to measure theory, this book highlights problems related to Gaussian measures in Hilbert and Banach spaces. *Gaussian Measures* is a superb introduction to the theory of Gaussian measures on infinite-dimensional spaces, and is suitable for graduate students, plus advanced undergraduate students in mathematics and statistics.

Reference • 9781786302670 • Feb 2020 • Cloth • 272pp • US\$144.95

**Improving Health Care Quality**

Case Studies with JMP

Mary Ann Shifflet, Cecilia Martinez, Jane Oppenlander & Shirley Shmerling

This book shows practitioners how to solve real world problems by example, using a comprehensive approach that covers problem definition and context, data management, selecting appropriate analysis methods, step-by-step JMP instructions, and how to interpret the statistical results in context. This book contains approximately 10-12 case studies on health care quality improvement.

Reference • 9781119604617 • May 2020 • Cloth • 240pp • US\$114.95

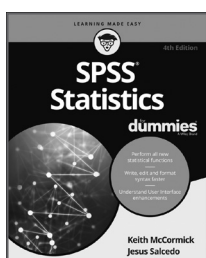
Statistics

Statistics**A Concise Mathematical Introduction for Scientists and Engineers***David Scott*

Statistic: A Concise Mathematical Introduction for Students and Scientists offers a one academic term text that prepares the student to broaden their skills in statistics, probability and inference, prior to selecting their follow-on courses in their chosen fields, whether it be engineering, computer science, programming, data sciences, business or economics. The book places focus early on continuous measurements, as well as discrete random variables. By invoking simple and intuitive models and geometric probability, discrete and continuous experiments and probabilities are discussed throughout the book in a natural way. Classical probability, random variables, and inference are discussed, as well as material on understanding data and topics of special interest.

Reference • 9781119675846 • Jun 2020 • Paper • 224pp • US\$55.00

COMPUTATIONAL & GRAPHICAL STATISTICS

**SPSS Statistics for Dummies**

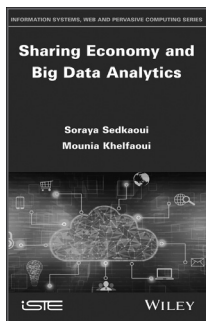
4th Edition

Keith McCormick

The fun and friendly guide to mastering IBM's Statistical Package for the Social Sciences. Written by an author team with a combined 45 years of experience using SPSS, this updated guide takes the guesswork out of the subject and helps you get the most out of using the leader in predictive analysis. Covering the latest release and updates to SPSS 25.0, and including over 100 pages of basic statistical theory, it helps you understand the mechanics behind the calculations, perform predictive analysis, produce informative graphs, and more. You'll even dabble in programming as you expand SPSS functionality to suit your specific needs.

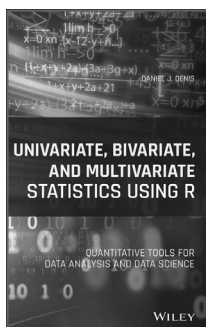
Trade • 9781119560838 • Aug 2020 • Paper • 464pp • US\$34.95 • Previous ed: 9781118989012

DATA ANALYSIS

**Sharing Economy and Big Data Analytics***Soraya Sedkaoui & Mounia Khelfaoui*

The different facets of the sharing economy offer numerous opportunities for businesses – particularly those that can be distinguished by their creative ideas and their ability to easily connect buyers and senders of goods and services via digital platforms. At the beginning of the growth of this economy, the advanced digital technologies generated billions of bytes of data that constitute what we call Big Data. This book underlines the facilitating role of Big Data analytics, explaining why and how data analysis algorithms can be integrated operationally, in order to extract value and to improve the practices of the sharing economy. It examines the reasons why these new techniques are necessary for businesses of this economy and proposes a series of useful applications that illustrate the use of data in the sharing ecosystem.

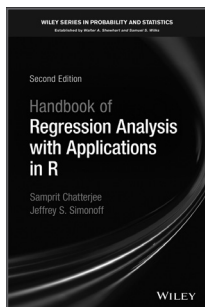
Reference • 9781786305060 • Jan 2020 • Cloth • 268pp • US\$144.95

**Univariate, Bivariate, and Multivariate Statistics Using R****Quantitative Tools for Data Analysis and Data Science***Daniel Denis*

This book provides a user-friendly and practical guide on R, with emphasis on covering a broader range of statistical methods than previous books on R. This is a “how to” book and will be of use to undergraduates and graduate students along with researchers and professionals who require a quick go-to source to help them perform essential statistical analyses and data management tasks in R. The book only assumes minimal prior knowledge of statistics, providing readers with the tools they need right now to help them understand and interpret their data analyses. This book covers univariate, bivariate, and multivariate statistical methods, as well as some nonparametric tests. It provides students with a hands-on easy-to-read manual on the wealth of applied statistics and essential R computing that they will need for their theses, dissertations, and research publications. A strength of this book is its scope of coverage of univariate through to multivariate procedures, while simultaneously serving as a friendly introduction to R software.

Reference • 9781119549932 • Apr 2020 • Cloth • 368pp • US\$124.95

REGRESSION ANALYSIS



Handbook of Regression Analysis with Applications In R

2nd Edition

Jeffrey Simonoff & Samprit Chatterjee

Building on the *Handbook of Regression Analysis and Regression Analysis by Example*, the authors' thorough treatments of "classic" regression analysis, this book covers two important and more advanced topics of time-to-event survival data and longitudinal and clustered data. Further, methods that have become prominent in the last 15-30 years that are designed for analyses on often-large data sets and can take advantage of flexibility in modeling were not covered, including smoothing, tree-based, and regularization methods, all of which are increasingly becoming part of the data analysis toolkit. Examples are drawn from a wide variety of application areas using real data sets and all of the R code is provided. The book will be of interest to data scientists as well as in regression analysis courses at the graduate and undergraduate level.

Reference • 9781119392378 • Jun 2020 • Cloth • 384pp • US\$129.95

SURVEY RESEARCH METHODS & SAMPLING



Big Data Meets Survey Science

A Collection of Innovative Methods

Craig Hill

Written and edited by leading experts in their respective fields, this volume offers a state-of-the-art overview of Big Data issues, concerns, and responses in survey methodology. Like several other books in the Wiley Series in Survey Methodology, this work has been prepared in conjunction with an international conference on the topic by the Survey Research Methods Section of the American Statistical Association. The conference and book constitute part of an ongoing effort by a group of international researchers to promote quality in Big Data and to raise the level of methodological expertise in various applied fields. The editors and contributors are eminent, varied, and reflective of the international marketplace. Copious tables, figures, and references, as well as an extensive glossary, supplement the high quality discussion throughout the text.

Reference • 9781118976326 • Aug 2020 • Cloth • 608pp • US\$124.95

Mathematics, Statistics, Physics & Astronomy

May to August 2020 New Titles

Title	Author	ISBN	Page Reference	Bind	Prices (US\$)	Quantity
A Modern Introduction to Fuzzy Mathematics	Syropoulos, Grammenos	9781119445289	1	Cloth	119.95	
An Introduction to the Finite Element Method (FEM) for Differential Equations	Asadzadeh	9781119671640	2	Cloth	114.95	
Astrobiology: Understanding Life in The Universe, 2nd Edition	Cockell	9781119550358	5	Paper	TBA	
Basic Physics: A Self-Teaching Guide, 3rd Edition	Noschese, Kuhn	9781119629900	5	Paper	24.95	
Big Data Meets Survey Science: A Collection of Innovative Methods	Hill	9781118976326	8	Cloth	124.95	
Differential Equations With MATLAB, 3rd Edition	Boyce	9781118376805	3	Paper	53.95	
Experiments: Planning, Analysis, and Optimization, 3rd Edition	Wu, Hamada	9781119470106	6	Cloth	134.95	
Exploring The Solar System, 2nd Edition	Bond	9781119384908	5	Paper	97.95	
Fractional Order Analysis: Theory, Methods and Applications	Dutta, Akdemir, Atangana	9781119654162	3	Cloth	134.95	
Fundamentals of Numerical Mathematics for Physicists and Engineers	Meseguer	9781119425670	4	Cloth	129.95	
Gaussian Measures in Hilbert Space: Construction and Properties	Kukush	9781786302670	6	Cloth	144.95	
Geographical Modeling: Cities and Territories	Pumain	9781786304902	4	Cloth	119.95	
Hadamard Matrices: Constructions using Number Theory and Algebra	Seberry, Yamada	9781119520245	3	Cloth	114.95	
Handbook of Regression Analysis with Applications In R, 2nd Edition	Simonoff, Chatterjee	9781119392378	8	Cloth	129.95	
Improving Health Care Quality: Case Studies with JMP	Shifflet, Martinez, Oppenlander, Shmerling	9781119604617	6	Cloth	114.95	
Mathematical Methods in Interdisciplinary Sciences	Chakraverty	9781119585503	4	Cloth	124.95	
Mathematical Modeling of Random and Deterministic Phenomena	Manou-Abi, Dabo-Niang, Salone	9781786304544	1	Cloth	164.95	
Numerical Simulation, an Art of Prediction: Examples, Volume 2	Sigrist	9781786304322	1	Cloth	164.95	
Numerical Simulation, an Art of Prediction: Theory, Volume 1	Sigrist	9781786304315	4	Cloth	144.95	
Peak Performance Culture: The Five Metrics of Organizational Excellence	Mitchell	9781119581499	1	Cloth	24.95	
Problem Solving in Theoretical Physics	Burmistrov, Belousov, Ternov	9783527413966	6	Paper	110.22	
Sharing Economy and Big Data Analytics	Sedkaoui, Khelfaoui	9781786305060	7	Cloth	144.95	
SPSS Statistics for Dummies, 4th Edition	McCormick	9781119560838	7	Paper	34.95	
Statistics: A Concise Mathematical Introduction for Scientists and Engineers	Scott	9781119675846	7	Paper	55.00	
Stochastic Methods for Credit Risk	d'Amico, Janssen, Manca	9781848219007	2	Cloth	119.95	
The Book of Real-World Negotiations: Successful Strategies from Business, Government, and Daily Life	Weiss, Ury	9781119616191	2	Cloth	26.95	
Topology Optimization Design of Heterogeneous Materials and Structures	Da	9781786305589	3	Cloth	119.95	
Understanding Physics, 3rd Edition	Mansfield, O'Sullivan	9781119519508	5	Paper	70.00	
Univariate, Bivariate, and Multivariate Statistics Using R: Quantitative Tools for Data Analysis and Data Science	Denis	9781119549932	7	Cloth	124.95	
Venture Capital and the Financing of Innovation	Guilhon, Montchaud	9781786300690	2	Cloth	119.95	

Wiley Offices in Asia Pacific Region

For product and order inquiries, please contact our Customer Services Department.

1 Fusionopolis Walk, #07-01 Solaris South Tower, Singapore 138628

Mainline: (65) 6643 8000 • Fax: (65) 6643 8008

Email: asiaorders@wiley.com

Customer Hotline: (65) 6643 8333 • Fax: (65) 6643 8397

For Marketing and Publicity inquiries,
email publicityasia@wiley.com

Wiley Homepage: www.wiley.com

China Beijing

Room 805-808, Floor 8, Sun Palace,
No. 12A, Taiyanggong Middle Road
Chaoyang District, Beijing, P.R. China
Postal code 100028
Tel: (86) 10 8418 7800
Fax: (86) 10 8418 7810
china_marketing@wiley.com

Shanghai

Units A&B, 15th Floor, Office Building Phase
II, Shinmay Union Square, No. 506 Shang
Cheng Road, Pudong New District, Shanghai
200120, P.R. China
Tel: (86) 21 8036 1200
Fax: (86) 21 6160 1661
china_marketing@wiley.com
www.wileychina.com

India

New Delhi

4435-36/7, Ansari Road, Daryaganj,
New Delhi 110 002, India
Tel: (91) 11 4 363 0000/01
Fax: (91) 11 2 327 5895
csupport@wileyindia.com

East India

Tel: (91) 9973156158
csupport@wileyindia.com

Bangalore

Tel: (91) 80 23132383
Fax: (91) 80 23124319
csupport@wileyindia.com

Mumbai

Tel: (91) 22 27889272
Fax: (91) 22 27889263
csupport@wileyindia.com

Chennai

Tel: (91) 98410 22399
csupport@wileyindia.com

Hyderabad

Tel: (91) 98661 43949
csupport@wileyindia.com

Indonesia

Ruko Golden Madrid
Blok D 21 Bumi Serpong Damai
Jl. Letnan Sutopo, Mekar Jaya, Serpong,
Kota Tangerang Selatan, Banten 15310
Indonesia
Tel: (62) 21 5316 0520/21

Japan

Koishikawa Sakura Bldg. 4F
1-28-1 Koishikawa, Bunkyo-ku
Tokyo 112-0002, Japan
Tel: (81) 3 3830 1232
Fax: (81) 3 5689 7276
marketing@wiley.co.jp
www.wiley.co.jp

Malaysia

Unit B-3A-3A, Menara BATA,
PJ Trade Centre
No 8, Jalan PJU 8/8A,
Bandar Damansara Perdana
47820 Petaling Jaya, Selangor
Tel: (60) 3 7712 2000
Fax: (60) 3 7722 5901
ayeo@wiley.com

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
Fax: (886) 2 2391 1068
ataiwan@wiley.com

Singapore

1 Fusionopolis Walk
#07-01 Solaris South Tower
Singapore 138628
Customer Hotline: (65) 6643 8333
Fax: (65) 6643 8397
Email: asiaorders@wiley.com

For orders in other Asian countries, please contact:

Customer Hotline: (65) 6643 8333
Email: asiaorders@wiley.com

Australia & New Zealand

For marketing, please contact:

155 Cremorne Street,
Richmond, Victoria 3121
Australia
Tel: (61) 3 9274 3100
Fax: (61) 3 9274 3101
melbourne_office@johnwiley.com.au

For orders in ANZ region, please contact:

PO Box 3065
Stafford BC
Queensland 4053
Australia
Toll-free telephone: 1800 777 474
Toll-free fax: 1800 802 258
Aus-custservice@wiley.com

WILEY