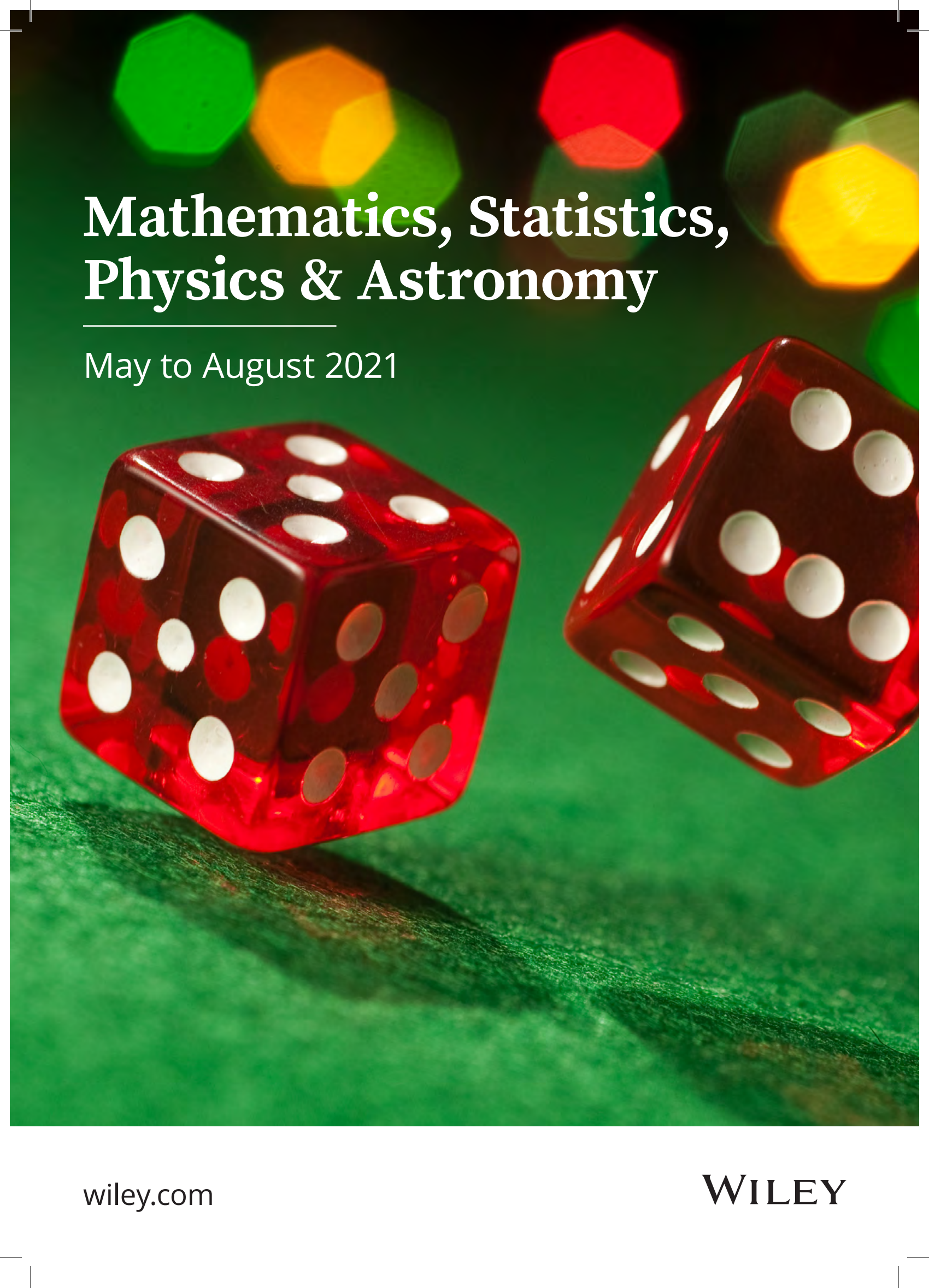


The background of the entire page is a photograph. It features two red, translucent dice with white pips. One die is in the foreground, resting on a green, textured surface that looks like a pool table. The other die is slightly behind and to the right. In the upper right background, there are several out-of-focus, hexagonal bokeh lights in green, yellow, and red. The title text is overlaid on the upper left portion of this image.

Mathematics, Statistics, Physics & Astronomy

May to August 2021

Subject: Mathematics

Wiley


Generalized Ordinary Differential Equations in Abstract Spaces and Applications

Everaldo De Mello Bonotto, Młrcia CłA Federson, Ja...

9781119654933, 1119654939

Pub Date: 8/3/21

\$115.00 USD

500 pages

Hardcover

Mathematics / Algebra / Abstract

Summary: Explore a unified view of differential equations through the use of the generalized ODE from leading academics in mathematics

Generalized Ordinary Differential Equations in Abstract Spaces and Applications delivers a comprehensive treatment of new results of the theory of Generalized ODEs in abstract spaces. The book covers applications to other types of differential equations as well, including Measure Functional Differential Equations (measure FDEs). It presents a uniform collection of qualitative results of Generalized ODEs and offers readers an introduction to several theories, including ordinary differential equations, impulsive differential

Wiley

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Graphs and Networks

Sandra Kingan

9781118937181, 111893718X

Pub Date: 6/2/21

\$99.95 USD

288 pages

Hardcover

Mathematics / Number Theory

Summary: A unique blend of graph theory and the modern applications of networks for students and data science professionals

In *Graphs and Networks*, accomplished mathematician and author Dr. Sandra R. Kingan delivers up to date and topical coverage of graph theory while tying in the various real-world applications of social, telecommunication, and computer networks. It includes topics like Tutte's Wheels Theorem, Seymour's Splitter Theorem, and decomposition theorems, and offers access to an accompanying website containing a growing collection of papers that illustrate the practical applications and techniques of graph theory to

Wiley

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Mathematical Biology and Natural Resource Management : Analytical and Numerical Methods

Nikolay Strigul

9780470582541, 0470582545

Pub Date: 5/25/21

\$125.00 USD

512 pages

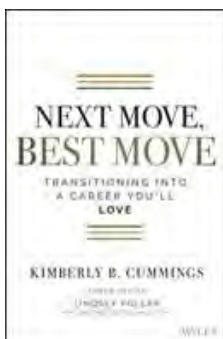
Hardcover

Science / Life Sciences / Biophysics

Introducing the use of mathematical methods to non-mathematicians, thoroughly addresses the major concepts of mathematical ecology and natural resource management and details the related biological co...

Summary: Introducing the use of mathematical methods to non-mathematicians, thoroughly addresses the major concepts of mathematical ecology and natural resource management and details the related biological complexity to mathematicians. This self-contained book addresses different ecological scales, including population, simple foodwebs, and communities, and discusses and compares most of the different modeling approaches. The author introduces

Wiley


Next Move, Best Move : Transitioning Into a Career You'll Love

Kimberly B. Cummings, Lindsey Pollak

9781119736226, 1119736226

Pub Date: 6/9/21

\$19.95 USD

240 pages

Paperback

Business & Economics / Business Communication

Summary: An expert guide for professionals seeking to understand how to navigate the world of work.

Kimberly B. Cummings, author of *Next Move, Best Move: Transitioning into a Career You'll Love*, leaves no stone unturned with this thorough, expert guide for professionals seeking to understand how to navigate the world of work, from beginning to end, starting with uncovering personal and professional values in an effort to align their expertise and skills to roles and companies that will finally change the trajectory of their career and set them up to be leaders in the workforce.

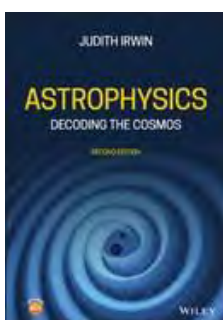
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The Mathematics of Fluid Flow Through Porous Media

Myron B. Allen, III
9781119663843, 1119663849
Pub Date: 8/3/21
\$130.00 USD
256 pages
Hardcover
Mathematics / Applied

Summary: The book will fill a gap that has emerged as computational modeling has become a standard tool in porous-media research. As the field has advanced, early-career researchers such as graduate students understandably gloss over some mathematical fundamentals to begin working on computational problems at the frontiers. The proposed book will furnish a pathway by which these researchers can efficiently acquire the fundamentals needed to become well-informed users and designers of computational models. The book will introduce several advanced techniques, such as the method of characteristics, fundamental solutions, similarity methods, and dimensional analysis in a self-contained fashion.

Subject: Physics & Astronomy



Astrophysics : Decoding the Cosmos (2nd Edition)

Judith Ann Irwin
9781119623687, 1119623685
Pub Date: 6/14/21
\$120.00 USD
512 pages
Hardcover
Science / Space Science / Astronomy

Summary: The new edition of the popular textbook for undergraduate astronomers, covers the "how" of astrophysics

Astrophysics: Decoding the Cosmos, Second Edition, describes how information about the physical nature of stars and other celestial bodies is obtained and analyzed to gain a better understanding of the universe. This acclaimed introductory textbook makes the complex principles and theories underlying astrophysics accessible to students with basic knowledge of first-year calculus-based physics and introductory astronomy. Reader-friendly chapters explore physical processes using relevant examples and clear

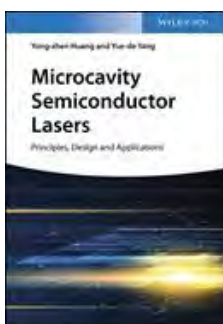
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Fusion Reactor Design : Plasma Physics, Fuel Cycle System, Operation and Maintenance

Takashi Okazaki
9783527414031, 3527414037
Pub Date: 7/6/21
\$285.00 USD
680 pages
Hardcover
Science / Physics / Nuclear

Summary: Provides a detailed overview of fusion reactor design, written by an international leader in the field

Nuclear fusion—generating four times as much energy from the same mass of fuel as nuclear fission—is regarded by its proponents as a viable, eco-friendly alternative to gas-fired, coal-fired, and conventional power plants. Although the physics of nuclear fusion is thoroughly understood, the construction of prototype reactors currently presents significant technical challenges. *Fusion Reactor Design: Plasma Physics, Fuel Cycle System, Operation and Maintenance* provides a systematic, reader-friendly



Microcavity Semiconductor Lasers : Principles, Design and Applications

Yong-zhen Huang, Yue-de Yang
9783527345465, 3527345469
Pub Date: 9/20/21
\$170.00 USD
370 pages
Hardcover
Technology & Engineering / Lasers & Photonics

Summary: Explore this thorough overview of integrable microcavity semiconductor lasers and their applications from two leading voices in the field

Attracting a great deal of attention over the last decades for their promising applications in photonic integration and optical interconnects, microcavity semiconductor lasers continue to develop via advances in fundamental physics, theoretical analysis, and numerical simulations. In a new work that will be of interest to researchers and practitioners alike, *Microcavity Semiconductor Lasers: Principles, Design and Applications* delivers an application-oriented and highly relevant exploration of the theory, fabrication, and

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Quantum Optics and Quantum Information

Barry M. Garraway
9783527411726, 3527411720
Pub Date: 6/21/21
\$85.00 USD
450 pages
Paperback
Science / Physics / Optics & Light

Quantum Optics and Quantum Information is an integrated course of the modern disciplines of quantum optics and quantum information. The reader will learn about basic principles of light-matter interac...

Summary: Unique in its rigorously combined treatment of quantum optics and quantum information, this textbook teaches the basic principles of light-matter interaction, the theoretical tools of quantum information, and how and which systems can be used for quantum information processing. Adopting a didactical approach field-tested by the author in numerous lectures, the book introduces basic principles of quantum optics, ranging from cavity QED and the Jaynes-

Subject: Statistics

Wiley

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Advanced Statistical Methods for Reliability Analysis

William Q. Meeker
9781118115510, 1118115511
Pub Date: 7/21/21
\$150.00 USD
512 pages
Hardcover
Mathematics / Applied

Summary: This book improves Meeker and Escobar (1998, Wiley) not only in terms of organization and presentation, but also in extensions, modifications to the technical material, and advanced topic coverage (such as accelerated degradation and sensor, storage, and communications technology). It presents state-of-the-art, computer-based statistical methods for reliability data analysis, for test planning of industrial products, and for dynamic covariate information found on the Internet. It also improves long time established techniques as it demonstrates how to apply the new graphical, numerical, or simulation-based methods to a broad range of models encountered in reliability data analysis.

Wiley

Advances in Longitudinal Survey Methodology

Peter Lynn
9781119376934, 1119376939
Pub Date: 3/22/21
\$90.00 USD
544 pages
Hardcover
Mathematics / Probability & Statistics

Summary: This book provides a comprehensive overview of the many advances that have been made in the field of longitudinal survey methodology over the past twelve years, as well as slightly extending the topic coverage of the earlier volume, "Methodology of Longitudinal Surveys." As such, it describes the state of the art in designing, implementing, and analysing longitudinal surveys.

The greatly expanded enthusiasm for longitudinal surveys has brought with it a thirst for knowledge about the best ways to design and implement such surveys. Considerable advances in knowledge have been made in recent years in areas that are covered in this book that encompasses all

Wiley

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Algorithms in Bioinformatics : Theory and Implementation

Paul A. Gagniuc
9781119697961, 1119697964
Pub Date: 8/3/21
\$135.00 USD
416 pages
Hardcover
Mathematics / Probability & Statistics

Summary: This book describes the main algorithms that are used to elucidate biological functions and relationships. All main areas of bioinformatics are covered including sequence alignment, molecular phylogenetics, gene and promoter prediction, structural bioinformatics, genomics, and proteomics. Graphical illustrations are used for technical details of computational algorithms to aid an in-depth understanding. This balanced, yet easily accessible book also shows how these algorithms can be implemented and used with 10 different programming languages. The author also provides 500 open source implementations and 25 ready-to-use course presentations. This book is ideal for upper-undergraduate

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Applied Linear Regression (5th Edition)

Sanford Weisberg
9781119580140, 1119580145
Pub Date: 7/14/21
\$140.00 USD
400 pages
Hardcover
Mathematics / Probability & Statistics / Regression Analysis

Summary: The Fifth Edition of *Applied Linear Regression* provides a thorough update of the basic theory and methodology of linear regression modeling. The book is primarily designed for a one-semester course in applied regression, requiring 10 of its 12 chapters to cover linear models fit with ordinary least squares in great depth but with minimal mathematics. This new edition continues to stress ideas and interpretation. Computer input will not appear in the book. However, the author does add a very brief sub-section to each section called Do It in R, listing relevant R functions. The book will continue to be useful for users of other packages. This new edition contains more homework problems

Applied Time Series Analysis for the Social Sciences : Specification, Estimation, and Inference

Regina Baker
9780470749937, 0470749938
Pub Date: 1/25/22
\$80.00 USD
448 pages
Hardcover
Mathematics / Probability & Statistics

Filling the need for a comprehensive guide on the subject, *Applied Time Series Analysis for the Social Sciences* presents time series analysis in an accessible format designed to appeal to students and...

Summary: Filling the need for a comprehensive guide on the subject, *Applied Time Series Analysis for the Social Sciences* presents time series analysis in an accessible format designed to appeal to students and professional researchers with little mathematical and statistical background. With a focus on social-science applications and a mix of theory, including detailed case studies provided throughout the text examines various uses and

Computational Analysis of Communication

Wouter van Atteveldt, Damian Trilling, Carlos Arci...
9781119680239, 1119680239
Pub Date: 8/24/21
\$49.95 USD
Paperback
Social Science / Research

Summary: Provides clear guidance on leveraging computational techniques to answer social science questions

In disciplines such as political science, sociology, psychology, and media studies, the use of computational analysis is rapidly increasing. Statistical modeling, machine learning, and other computational techniques are revolutionizing the way electoral results are predicted, social sentiment is measured, consumer interest is evaluated, and much more. *Computational Analysis of Communication* teaches social science students and practitioners how computational methods can be used in a broad range of applications,

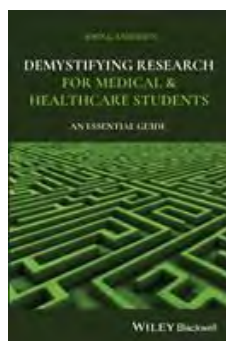
Data Lakes For Dummies

Alan R. Simon
9781119786160, 1119786169
Pub Date: 7/14/21
\$34.99 USD
400 pages
Paperback
Computers / Database Administration & Management

Summary: Dive into the world of data lakes

Data drives business decisions. But the data needed to drive business decisions comes in many forms - some easy to organize and some barely recognizable. Enter data lakes, data repositories designed to take in your most curated data alongside your most chaotic and turn it into information that drives business decisions. This book offers an introduction to data lakes and how they can help any business. Get a grasp on how to define what is a data lake, what it can and can't do, and how to build the best lake for your needs.

Inside...



Demystifying Research for Medical and Healthcare Students : An Essential Guide

John L. Anderson
9781119701378, 1119701376
Pub Date: 8/23/21
\$37.50 USD
224 pages
Paperback
Medical / Epidemiology

Summary: All healthcare students need to understand research methods to be able to understand research articles and to actively engage in research where necessary. Most clinical programs include research training within their courses, and many students are required to undertake an assessed research project—both at undergraduate and postgraduate levels. Breaking down the jargon barriers of research methods, and designed for those new to the world of research, *Demystifying Research* is a straightforward and highly accessible guide to fundamental research methods, approaches, and skills.

This student-friendly resource describes quantitative and



Building a Modern Data Platform : Pursuit of Modern Big Data Systems

Yusuf Aytas
9781119690924, 1119690927
Pub Date: 7/7/21
\$135.00 USD
400 pages
Hardcover
Mathematics / Probability & Statistics

Summary: Provides expert guidance and valuable insights on getting the most out of Big Data systems

An array of tools are currently available for managing and processing data—some are ready-to-go solutions that can be immediately deployed, while others require complex and time-intensive setups. With such a vast range of options, choosing the right tool to build a solution can be complicated, as can determining which tools work well with each other. *Building a Modern Data Platform* provides clear and authoritative guidance on the critical decisions necessary for successfully deploying, operating, and maintaining Big Data systems.

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Empirical Likelihood for Dependent Data

Soumendra N. Lahiri, Daniel Nordman
9781119312765, 1119312760
Pub Date: 8/17/21
\$140.00 USD
300 pages
Hardcover
Mathematics / Probability & Statistics / Time Series

Summary: Empirical likelihood (EL) for time series and spatial data is an active area of research in statistics and econometrics. This book provides an accessible account of the empirical likelihood methodology and an up-to-date account of the latest advances on the topic. Applications for time series, econometrics, high-dimensional data and spatial data are covered as well as frequency domain empirical likelihood and long-range dependence.

The book is intended for statisticians who want to learn about EL methodology and conduct research in this area. It is also useful for practitioners who want to apply the EL methodology in their work but do not have the time to cover

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Modeling Social Determinants of Health

Peter Hovmand
9781118733486, 1118733487
Pub Date: 6/2/21
\$115.00 USD
288 pages
Hardcover
Mathematics / Probability & Statistics

Summary: This book provides a critical approach to building and simulating computer models of social determinants of health and draws primarily on system dynamics due to the availability of rich examples of system dynamics models that have been developed around the world using participatory models. Also, the diverse set of case studies feature examples from around the world in both less developed and more developed countries, discuss rural and urban health issues, and are inclusive of a broad range of participants (from villagers in India to residents in St. Louis, MO to policy makers engaged in statewide mental health reform). Using a system dynamics approach to represent and explore impac...

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Geostatistical Functional Data Analysis

Jorge Mateu Mahiques, Ramon Giraldo
9781119387848, 1119387841

Pub Date: 9/7/21

\$120.00 USD

300 pages

Hardcover

Social Science / Statistics

Summary: This book presents a unified approach to modelling functional data when spatial and spatio-temporal correlations are present. The editors link together for the first time the wide research areas of geostatistics and functional data analysis to provide the reader with a new area called geostatistical functional data analysis that will bring new insights and new open questions to researchers coming from both scientific fields.

Leading experts in the field, the Editors have put together a collection of chapters covering state-of-the-art methods in this area. The individual chapters combine formal statements of the results including mathematical proofs with informal

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Individual Participant Data Meta-Analysis : A Handbook for Healthcare Research

Richard D. Riley, Jayne F. Tierney, Lesley A. Stew...

9781119333722, 1119333725

Pub Date: 6/14/21

\$90.00 USD

560 pages

Hardcover

Medical / Evidence-Based Medicine

Summary: *Individual Participant Data Meta-Analysis: A Handbook for Healthcare Research* provides a comprehensive introduction to the fundamental principles and methods that healthcare researchers need when considering, conducting or using individual participant data (IPD) meta-analysis projects. Written and edited by researchers with substantial experience in the field, the book details key concepts and practical guidance for each stage of an IPD meta-analysis project, alongside illustrated examples and summary learning points.

Split into five parts, the book chapters take the reader through the journey from initiating and planning IPD projects

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Industrial Data Analytics for Diagnosis and Prognosis with R - A Random Effects Modelling Approach

Shiyu Zhou, Yong Chen

9781119666288, 1119666287

Pub Date: 6/22/21

\$135.00 USD

416 pages

Hardcover

Mathematics / Probability & Statistics

Summary: This book introduces the random effects modeling approach for industrial system diagnosis and prognosis. This book contains three main parts. The first part is theory preparation, which covers general statistical concepts and theory useful for describing and modelling fixed effects, random effects, and variation in a univariate or multivariate dataset, which provides necessary background for later chapters. The next part of the book focuses on Diagnosis methods, which covers the applications of random effects approach to diagnosis of variation sources in industrial processes. A detailed performance comparison of different methods for practical applications is presented, as well as Final

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Informatics and Machine Learning : From Martingales to Metaheuristics

Stephen Winters-Hilt

9781119716747, 1119716748

Pub Date: 9/28/21

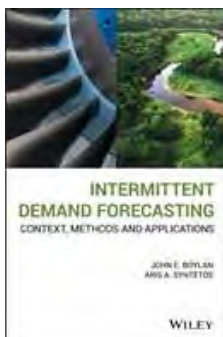
\$130.00 USD

560 pages

Hardcover

Mathematics / Probability & Statistics

Summary: This book provides an interdisciplinary presentation on machine learning, bioinformatics and statistics. This book is an accumulation of lecture notes and interesting research tidbits from over two decades of the author's teaching experience. The chapters in this book can be traversed in different ways for different course offerings. In the classroom, the trend is moving towards hands-on work with running code. Therefore, the author provides lots of sample code to explicitly explain and provide example-based code for various levels of project work. This book is especially useful for professionals entering the rapidly growing Machine Learning field due to its complete presentation of



Intermittent Demand Forecasting - Context, methods and applications

John Boylan, Aris Syntetos
9781119976080, 1119976081
Pub Date: 8/2/21
\$95.00 USD
416 pages
Hardcover
Medical / Biostatistics

Summary: *Intermittent Demand Forecasting - Context, methods and applications* covers the entire breadth of work in intermittent demand forecasting and the very latest research findings in the following topics:

- time series (parametric) methods
- bootstrapping, both parametric and non-parametric
- causal models
- neural networks

In order to enable a full understanding of how these methods may be implemented and how they may complement existing

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Introduction to Meta-Analysis (2nd Edition)

Michael Borenstein, Larry V. Hedges, Julian P. T. ...
9781119558354, 1119558352
Pub Date: 6/8/21
\$75.00 USD
544 pages
Hardcover
Medical / Biostatistics

Summary: The first edition of *Introduction to Meta-Analysis* has become the standard by which all books on meta-analysis are judged. From the date of its publication through today, it consistently shows up first on Amazon in a search for "Meta-Analysis" in Books. It has consistently sold more copies than any other book on the topic. It consistently gets five-star ratings from readers, who invariably cite the clarity of the presentation. It has been widely adopted as a text for classes in meta-analysis.

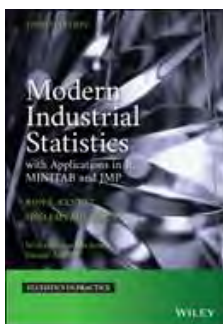
The book provides a clear and thorough introduction to meta-analysis, the process of synthesizing data from a series of separate studies. This second edition reflects recent

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Minding the Machines : Building and Leading Data Science and Analytics Teams

Jeremy Adamson
9781119785323, 1119785324
Pub Date: 7/27/21
\$40.00 USD
300 pages
Paperback
Computers / Data Science / Data Modeling & Design

Summary: Learn and provide clear insights into how to structure and lead a successful analytics team. This is a deceptively challenging goal since there are no templates to work from. Establishing a project management office, information services, or human resources department is an understood process and does not vary greatly between organizations. Establishing an analytics team, by contrast, requires a significant up-front investment in understanding and contextualizing the initiative. Many organizations have attempted to use operating models and templates from other functions, in particular IT and operations research. This fundamental misunderstanding of where analytics fits within an org



Modern Industrial Statistics : With Applications in R, MINITAB, and JMP (3rd Edition)

Ron S. Kenett, Shelemyahu Zacks
9781119714903, 1119714907
Pub Date: 7/6/21
\$110.00 USD
662 pages
Hardcover
Mathematics / Probability & Statistics

Summary: The new edition of the prime reference on the tools of statistics used in industry and services, integrating theoretical, practical, and computer-based approaches

Modern Industrial Statistics is a leading reference and guide to the statistics tools widely used in industry and services. Designed to help professionals and students easily access relevant theoretical and practical information in a single volume, this standard resource employs a computer-intensive approach to industrial statistics and provides numerous examples and procedures in the popular R language and for MINITAB and JMP statistical analysis

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Nonparametric Statistics with Applications to Science and Engineering (2nd Edition)

Paul H. Kvam, Brani Vidakovic
9781119268130, 1119268133
Pub Date: 8/3/21
\$140.00 USD
430 pages
Hardcover
Mathematics / Probability & Statistics

Summary: This book presents modern nonparametric statistics from a practical point of view. This new edition includes custom R functions implementing nonparametric methods to explain how to compute them and make them more comprehensible. Relevant built-in functions and packages on CRAN are also provided with a sample code. R codes in the new edition not only enable readers to perform nonparametric analysis easily, but also to visualize and explore data using R's powerful graphic systems, such as ggplot2 package and R base graphic system. Following an introduction and a discussion of the basics of probability, statistics, and Bayesian statistics, the book discusses order statistics. Kolmogorov

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Probability Distributions for Directional Data on Smooth Manifolds

Ashis SenGupta, Kunio Shimizu
9781119414063, 1119414067
Pub Date: 11/9/21
\$125.00 USD
270 pages
Hardcover
Mathematics / Probability & Statistics

Summary: This book provides a comprehensive and rigorous treatment of real-life scientific problems which encounter non-linear data. The authors first present methods for developing distributions on a circle. Then, they proceed to show how such methods are generalized for other manifolds. They also consider new methods peculiar to certain other manifolds, like disc and hyperdisc. The organization of the book develops the methods from the beginning for a simple manifold, letting the reader appreciate how these unfold and generalize to more complicated manifolds. Next, rather than separately treating one distribution at a time, the authors develop the generalizations of the methods of derivati...

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Probability : With Applications and R (2nd Edition)

Amy S. Wagaman, Robert P. Dobrow
9781119692386, 1119692385
Pub Date: 6/16/21
\$145.50 USD
560 pages
Hardcover
Mathematics / Probability & Statistics

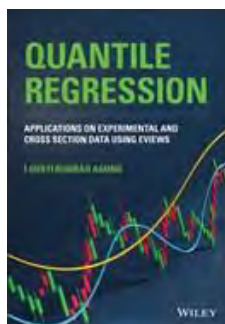
Summary: This book is ideal for courses on Probability typically taught in Mathematics and/or Statistics departments but could also be used in Engineering or Data Science departments. This book could also serve as a supplemental or review text for courses on Stochastic Processes or Markov Chains or Brownian Motion, since those require a strong foundation in probability. The text is also preparatory for the Probability Actuarial Exam – students who successfully complete a course with this text and do well are well-positioned to pass the P exam. Some major features of the new edition include an addition of supplemental materials for coding and simulation, improved exposition and examples for s

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

I. Gusti Ngurah Agung
9781119715177, 1119715172
Pub Date: 6/14/21
\$120.00 USD
496 pages
Hardcover
Mathematics / Probability & Statistics / Regression Analysis

Summary: 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.

LS-Regressions, Ordinary-Regressions or Mean-Regressions, the Quantile-Regressions (QRs) can be classified into three groups. The first group consists of the QRs with categorical variables, called ANOVA QRs, where ordinal variables are treated as nominal variables and the numerical independent variables (IVs) are transformed to ordinal variables. The second group consists of the QRs with numerical variables



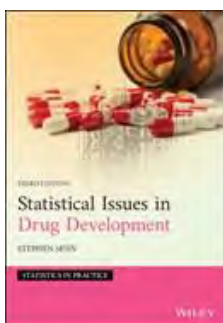


SQL for Data Scientists : A Beginner's Guide for Building Datasets for Analysis

Renee M Teate
9781119669364, 1119669367
Pub Date: 8/3/21
\$50.00 USD
Paperback
Computers / Languages / SQL

Summary: 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.



Statistical Issues in Drug Development (3rd Edition)

Stephen S. Senn
9781119238577, 1119238579
Pub Date: 7/26/21
\$120.00 USD
624 pages
Hardcover
Medical / Biostatistics

Summary: The revised third edition of *Statistical Issues in Drug Development* delivers an insightful treatment of the intersection between statistics and the life sciences. The book offers readers new discussions of crucial topics, including cluster randomization, historical controls, responder analysis, studies in children, post-hoc tests, estimands, publication bias, the replication crisis, and many more.

This work presents the major statistical issues in drug development in a way that's that is accessible and comprehensible to life scientists working in the field, and takes pains not to gloss over significant disagreements in the field of statistics, while encouraging communication

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Basic Statistical Methods for Reliability Analysis

William Q. Meeker
9781118115459, 1118115457
Pub Date: 8/17/21
\$135.00 USD
576 pages
Hardcover
Mathematics / Applied

Summary: This book improves Meeker and Escobar (1998, Wiley) not only in terms of organization and presentation, but also in extensions and modifications to the technical material. It presents state-of-the-art, computer-based statistical methods for reliability data analysis and for test planning of industrial products. It also improves long time established techniques as it demonstrates how to apply the new graphical, numerical, or simulation-based methods to a broad range of models encountered in reliability data analysis. Bayesian methods in solving practical problems (e.g. models involving random effects or censoring that arises in reliability studies) are now incorporated where appropriate.

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Statistics at Square One (12th Edition)

Michael J. Campbell
9781119401308, 1119401305
Pub Date: 9/14/21
\$32.50 USD
304 pages
Paperback
Medical / Research

Summary: The new edition of the popular introduction to the world of statistics for health care professionals and medical students

First published nearly three decades ago, *Statistics at Square One* remains one of the most popular introductions to medical statistics. Now in its twelfth edition, this international bestseller continues to be a must-have resource for anyone in need of a thorough introduction to statistics in the health sciences. Clear and accessible chapters help students with no previous background in the subject understand fundamental topics including summary statistics for quantitative and binary data, diagnostic and screening tests, populations and

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**Using Predictive Analytics to Improve
Healthcare Outcomes**

John W. Nelson, Jayne Felgen, Mary Ann Hozak
9781119747758, 1119747759

Pub Date: 5/25/21

\$130.00 USD

200 pages

Hardcover

Mathematics / Probability & Statistics

Summary: Discover a comprehensive overview, from established leaders in the field, of how to use predictive analytics and other analytic methods for healthcare quality improvement.

Using Predictive Analytics to Improve Healthcare Outcomes delivers a 16-step process to use predictive analytics to improve operations in the complex industry of healthcare. The book includes numerous case studies that make use of predictive analytics and other mathematical methodologies to save money and improve patient outcomes. The book is organized as a "how-to" manual, showing readers how to use existing theory and tools to achieve real, positive outcomes.