

Routledge

Statistics
Textbook Catalogue
Spring 2026



Routledge
Taylor & Francis Group

www.routledge.com

Welcome

Taylor & Francis are pleased to present a selection of our most suitable textbooks for your teaching. Titles have been selected from our comprehensive Routledge and CRC Press lists, full details of which can be found on our website: www.routledge.com If there are any subject areas not included in this catalogue which you are looking for resources for, do get in touch with us and we will see what we can provide. We are, as always, keen to view textbook publishing as a collaborative process and look forward to working with you in the future.

Contact Details:

HIGHER EDUCATION REPRESENTATIVES

Pippa Whittle

Higher Education Senior Representative, Midlands, Wales and the South West of England
Pippa.Whittle@tandf.co.uk

Jack Worman

Academic Partnership Manager and Higher Education Sales Representative
Jack.Worman@tandf.co.uk
+44 (0)7771 374 203

Mark Collins

Higher Education Manager & Representative, North East of England
Mark.Collins@tandf.co.uk
+44 (0)7818 513 566

Sebastien Durand-Nizan

Higher Education Representative, Scotland & North of England
Sebastien.Durand.Nizan@tandf.co.uk
+44 (0)7876 867 704

Richard Pollard

Higher Education Sales Representative, Northern Ireland & ROI
Richard.Pollard@tandf.co.uk
+44 (0)7557 866 928

Elena Sami

Higher Education Senior Representative, London
Elena.Sami@tandf.co.uk
+44 (0)7399 480 032

Becca Robinson

Higher Education Senior Sales Executive, London and the South East
Becca.robinson@tandf.co.uk

Wayne McQuaig

Higher Education Manager & Representative, Europe & Middle East
Wayne.McQuaig@tandf.co.uk
+44 (0)7584 213 670

Caitlin Davies

Higher Education Representative, Central & Southern Europe
Caitlin.Davies@tandf.co.uk

Jasmine Brown

Higher Education Representative, Eastern Europe
Jasmine.Brown@tandf.co.uk

Rogier Rongen

Higher Education Representative, Belgium, Luxembourg & the Netherlands
Rogier.Rongen@taylorandfrancis.com

Ellyse Stronach

Higher Education Representative, Denmark, Finland, Iceland, Norway & Sweden
Ellyse.Stronach@tandf.co.uk

TRADE SALES

Rod Abraham - Assistant UK Sales Manager, responsible for UK Online Resellers & Wholesalers
Rod.Abraham@tandf.co.uk
+44 (0)7860 380814

Lucy Pink - UK and Ireland Bookseller & Reseller Accounts Manager, responsible for the UK and Ireland, excluding London and South East England
Lucy.Pink@tandf.co.uk
+44 (0) 7860 633156

James Whittle - UK Library Supply and Area Sales Manager, responsible for London and South East England
James.Whittle@tandf.co.uk
+44 (0)7802 536233

Philip Veysey - Head of European Sales, responsible for Spain and Portugal, Germany and Austria
Philip.Veysey@informa.com
+34 687773678

Liza Walraven - Area Sales Manager for France, The Netherlands and Luxembourg
Liza.Walraven@taylorandfrancis.com
+31 623849668

Natalie Audley - Area Sales Manager for the Nordics
Natalie.Audley@tandf.co.uk
+44 (0)7920 547869

Hannah Dolton - Area Sales Manager for Belgium, Norway and Key Accounts in The Netherlands
Hannah.Dolton@tandf.co.uk

Asia Swieczkowska - Area Sales Manager for Eastern Europe and Central Asia
Joanna.Swieczkowska@tandf.co.uk
+44 (0)20 3377 3369

Karolina Szidel - Senior Sales Executive for Central and Southern Europe, Switzerland, Israel, Cyprus and Malta
Karolina.Szidel@tandf.co.uk
+44 (0)203 377 323

Sales Support for UK and Europe Trade Sales:
UK&EuropeanSalesSupport@informa.com

Inspection copies

To receive an exam/inspection, click on the weblink for the product or go to www.routledge.com and then use the Request Inspection Copy link on the book's page to make your request. You will be asked to provide some basic information about yourself and the course you are teaching. Most books are available as e-book/e-inspection access initially. Alternatively contact a Higher Education Representative to see if you are eligible for a paper inspection copy. For further information <https://www.routledge.com/our-customers/instructors/textbooks>

Faculty Resources

The Faculty Resources hub offers a range of resources to help you with your career in academia. With loads of free content to download and short articles addressing key topics, our aim is to help you navigate your journey as a professional working in higher education.

<https://www.routledge.com/our-customers/instructors/resources-support/faculty-resources>

Affordable Learning Solutions

In the United Kingdom, our [Inclusive Coursebook Provision](#) program ensures that students have access to their core course texts at no additional charge to them.

In the United States, we're working with a number of digital partners to make our books available through [Inclusive Access programs](#) at colleges and universities across the country.

<https://www.routledge.com/our-customers/instructors/affordability>

Online Platforms and Digital Products

<https://www.routledge.com/our-products/online-platforms>

PDF textbook catalogues

<https://www.routledge.com/go/textbook-catalogues>

Open access titles

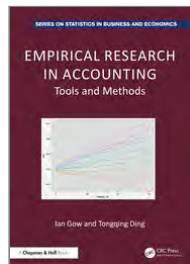
https://www.routledge.com/go/Open_Access_Title_Catalogues

Contents

Accounting Research	2	Multivariate Analysis	45
Bayesian Statistics	3	Multivariate Methods	46
Bioinformatics/Computational Biology/Genomics	5	Nonparametric Methods	47
Biostatistics	6	Political Analysis	48
Biostatistics/Life Science	7	Probability Theory	49
Categorical Data	8	Probability	50
Causal Inference	9	Psychometrics	51
Clinical Trials	10	R	52
Computer Science, Probability and Statistics	11	Regression Analysis	53
Computer-Intensive Methods	12	Regression Analysis, Linear Regression	54
Data Science	13	Regression for the Social Sciences	55
Data Science, Statistical Learning, Visualization	15	Research Methods	56
Design of Experiments	16	Sample Size	57
Differential Equations	17	SAS	58
Digital Humanities	18	Social Science Stats	59
Econometrics	19	Spatial Statistics	60
Engineering Statistics	20	Statistical Computing	61
Environmental Statistics	21	Statistical Graphics/Data Analysis	62
Epidemiology	22	Statistical Inference	63
Finance	23	Statistical Methods/Regression	64
Functional Data Analysis	25	Statistical Process/Quality Control/Reliability	65
Game Theory	26	Statistical Theory, Mathematical Statistics	66
Gaussian Processes	27	Statistics for Engineers	67
Generalized Additive Models	28	Statistics in Sports/Sports Analytics	68
Generalized Linear Models	29	Stochastic Processes	69
Geostatistics	30	Survey Sampling/Methodology	70
Health Data	31	Survival Analysis	71
Health Science Stats	32	Time Series	72
Intervention Research	33	Transportation Statistics	73
Introductory Statistics	34	Urban Informatics	74
Life Science Statistics	35	Study Skills, Research Methods & Statistics	75
Linear Algebra for Statistics	36		
Linear Models	37		
Logistic Regression	38		
Longitudinal Data	39		
Machine Learning	40		
Machine Learning for Social Sciences	41		
Mathematical Statistics	42		
Microeconometrics	43		
Missing Data	44		

Empirical Research in Accounting

Tools and Methods



Ian D. Gow University of Melbourne, Australia, **Tongqing Ding** University of Melbourne, Australia

Series: Chapman and Hall/CRC Series on Statistics in Business and Economics

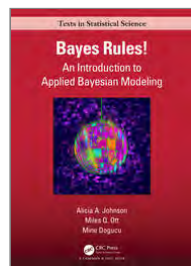
This textbook provides the foundation for a course that takes PhD students in empirical accounting research from the very basics of statistics, data analysis, and causal inference up to the point at which they conduct their own research. Starting with foundations in statistics, econometrics, causal inference, and institutional knowledge of accounting and finance, the book moves on to an in-depth coverage of the core papers in capital market research. Readers of the book will develop deep data analysis skills using modern tools. Extensive replication and simulation analysis is included throughout.

Chapman & Hall
December 2024 : 592pp
Hb: 978-1-032-58650-2 : **£105**
eBook: 978-1-003-45623-0

* For full contents and more information, visit: www.routledge.com/9781032586502

Bayes Rules!

An Introduction to Applied Bayesian Modeling



Alicia A. Johnson, Miles Q. Ott Smith College, Northampton, MA 01063, **Mine Dogucu** Denison University, OH, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

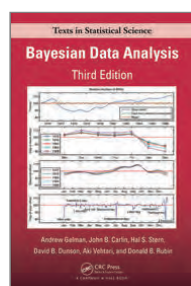
An engaging, sophisticated, and fun introduction to the field of Bayesian Statistics, Bayes Rules! An Introduction to Bayesian Modeling with R brings the power of modern Bayesian thinking, modeling, and computing to a broad audience. In particular, it is an ideal resource for advanced undergraduate Statistics students and practitioners with comparable experience. Bayes Rules! empowers readers to weave Bayesian approaches into their everyday practice.

Chapman & Hall
March 2022 : 544pp
Pb: 978-0-367-25539-8 : **£69.99**
Hb: 978-1-032-19159-1 : **£195**
eBook: 978-0-429-28834-0

* For full contents and more information, visit: www.routledge.com/9780367255398

3RD EDITION

Bayesian Data Analysis



Andrew Gelman Department of Statistics, Columbia University, New York, USA, **John B. Carlin** The Royal Children's Hospital, Parkville, Victoria, Australia, **Hal S. Stern** University of California, Irvine, USA, **David B. Dunson** Duke University, Durham, North Carolina, USA, **Aki Vehtari** Aalto University, Finland, **Donald B. Rubin** Harvard University, Cambridge, Massachusetts, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

Now in its third edition, this classic book continues to take an applied approach to analysis using up-to-date Bayesian methods.

Chapman & Hall
November 2013 : 675pp
Hb: 978-1-439-84095-5 : **£87.99**
eBook: 978-0-429-11307-9

* For full contents and more information, visit: www.routledge.com/9781439840955

Bayesian Inference

Theory, Methods, Computations



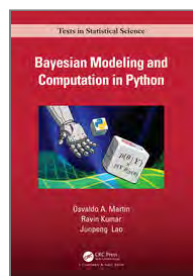
Silvelyn Zwanzig Uppsala University, Sweden, **Rauf Ahmad**

Bayesian Inference: Theory, Methods, Computations provides a comprehensive coverage of the fundamentals of Bayesian inference from all important perspectives, namely theory, methods and computations. The book is primarily aimed at first or second semester master students, where parts of the book can also be used at Ph.D. level or by research community at large. The emphasis is on exact cases. However, to gain further insight into the core concepts, an entire chapter is dedicated to computer intensive techniques. Selected chapters and sections of the book can be used for a one-semester course on Bayesian statistics.

Chapman & Hall
July 2024 : 346pp
Pb: 978-1-032-11809-3 : **£67.99**
Hb: 978-1-032-10949-7 : **£175**
eBook: 978-1-003-22162-3

* For full contents and more information, visit: www.routledge.com/9781032118093

Bayesian Modeling and Computation in Python



Osvaldo A. Martin CONICET and Aalto University, **Ravin Kumar**, **Junpeng Lao**

Series: Chapman & Hall/CRC Texts in Statistical Science

Bayesian Modeling and Computation in Python will enable readers to grasp the fundamental assumptions behind Bayesian statistical methods and how to apply them to a wide array of data analysis problems. The book will provide a clear path from elementary statistical ideas to advanced ones and will also provide a bridge between statistics and probabilistic machine learning ideas always with a focus on effective application of Bayesian models.

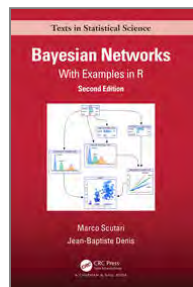
Chapman & Hall
December 2021 : 420pp
Hb: 978-0-367-89436-8 : **£86.99**
eBook: 978-1-003-01916-9

* For full contents and more information, visit: www.routledge.com/9780367894368

2ND EDITION

Bayesian Networks

With Examples in R



Marco Scutari Istituto Dalle Molle, **Jean-Baptiste Denis** INRA

Series: Chapman & Hall/CRC Texts in Statistical Science

The book introduces Bayesian networks using a hands-on approach, through simple yet meaningful examples. Discrete Bayesian networks are described first (Chapter 2), followed by Gaussian Bayesian networks (Chapter 3). Mixed networks (which include arbitrary random variables, and typically mix continuous and discrete ones) are covered as well (Chapter 4). These chapters explain the whole process of Bayesian network modelling, from structure learning to parameter learning to inference. All steps in learning are illustrated with R code.

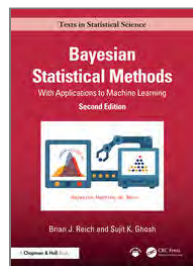
Chapman & Hall
July 2021 : 274pp
Hb: 978-0-367-36651-3 : **£94.99**
eBook: 978-0-429-34743-6

* For full contents and more information, visit: www.routledge.com/9780367366513

2ND EDITION

Bayesian Statistical Methods

With Applications to Machine Learning



Brian J. Reich N.C. State University, **Sujit K. Ghosh**

Series: Chapman & Hall/CRC Texts in Statistical Science

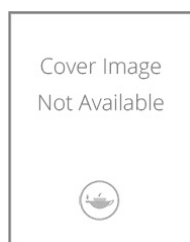
Bayesian Statistical Methods: With Applications to Machine Learning provides data scientists with the foundational and computational tools needed to carry out a Bayesian analysis. Compared to others, this book is more focused on Bayesian methods applied routinely in practice including multiple linear regression, mixed effects models and generalized linear models. This second edition includes a new chapter on Bayesian machine learning methods to handle large and complex datasets and several new applications to illustrate the benefits the Bayesian approach in terms of uncertainty quantification.

Chapman & Hall
February 2026 : 360pp
Hb: 978-1-032-48632-1 : **£94.99**
eBook: 978-1-003-39011-4

* For full contents and more information, visit: www.routledge.com/9781032486321

Foundations of Bayesian Statistics for Data Scientists

With R and Python



Alan Agresti , Maria Kateri , Ranjini Grove , Antonietta Mira Università della Svizzera italiana Campus Est

Series: Chapman & Hall/CRC Texts in Statistical Science

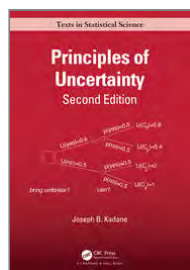
This book is an overview of the Bayesian approach to applying the most important inferential methods of statistical science. It is designed as a textbook for advanced undergraduate and master's students in Data Science, Statistics, or Mathematics who are interested in learning about Bayesian statistics.

Chapman & Hall
June 2026 : 452pp
Pb: 978-1-041-20292-9 : **£59.99**
Hb: 978-1-041-20291-2 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041202929

2ND EDITION

Principles of Uncertainty



Joseph B. Kadane Carnegie Mellon University, Pittsburgh, Pennsylvania, USA

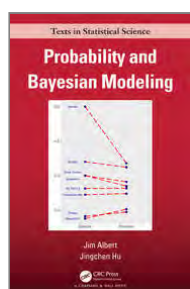
Series: Chapman & Hall/CRC Texts in Statistical Science

Like the De Groot winning first edition, the second edition of Principles of Uncertainty is an accessible, comprehensive guide to the theory of Bayesian Statistics written in an appealing, inviting style, and packed with interesting examples. It presents an accessible, comprehensive guide to the subjective Bayesian approach which has played a pivotal role in game theory, economics, and the recent boom in Markov Chain Monte Carlo methods. This new edition has been updated throughout and features a new chapter on Nonparametric Bayesian Methods.

Chapman & Hall
May 2024 : 522pp
Pb: 978-0-367-53973-3 : **£47.99**
Hb: 978-1-138-05273-4 : **£125**
eBook: 978-1-315-16756-5

* For full contents and more information, visit: www.routledge.com/9780367539733

Probability and Bayesian Modeling



Jim Albert Emeritus Professor at Bowling Green State Uni., **Jingchen Hu**

Series: Chapman & Hall/CRC Texts in Statistical Science

Bayesian statistics has been advancing in all aspects (theoretically, methodologically and computationally) in recent years. Based on an intuitive interpretation and understanding of probability, Bayesian learning provides a natural framework for students to think and solve scientific problems. This book provides an introduction to Bayesian analysis for undergraduate students with calculus, statistics and computational background.

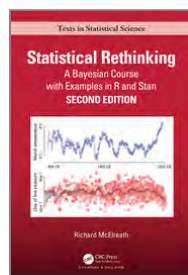
Chapman & Hall
December 2019 : 552pp
Hb: 978-1-138-49256-1 : **£94.99**
eBook: 978-1-351-03014-4

* For full contents and more information, visit: www.routledge.com/9781138492561

2ND EDITION

Statistical Rethinking

A Bayesian Course with Examples in R and STAN



Richard McElreath Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

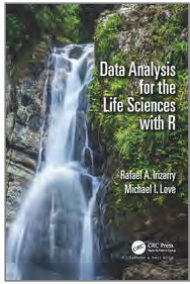
Series: Chapman & Hall/CRC Texts in Statistical Science

The very popular Statistical Rethinking: A Bayesian Course with Examples in R and Stan, Second Edition builds readers' knowledge of and confidence in statistical modeling. Reflecting the need for even minor programming in today's model-based statistics, the book pushes readers to perform step-by-step calculations that are usually automated. This unique computational approach ensures that readers understand enough of the details to make reasonable choices and interpretations in their own modeling work.

Chapman & Hall
March 2020 : 612pp
Hb: 978-0-367-13991-9 : **£86.99**
eBook: 978-0-429-02960-8

* For full contents and more information, visit: www.routledge.com/9780367139919

Data Analysis for the Life Sciences with R



Rafael A. Irizarry Dept. of Biostatistics, Harvard School of Public Health, Boston, Massachusetts, USA, **Michael I. Love** Dept. of Biostatistics, Harvard School of Public Health, Boston, Massachusetts, USA

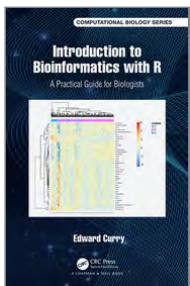
This book covers several of the statistical concepts and data analytic skills needed to succeed in data-driven life science research. The authors proceed from relatively basic concepts related to computed p-values to advanced topics related to analyzing high-throughput data. They include the R code that performs this analysis and connect the lines of code to the statistical and mathematical concepts explained.

Chapman & Hall
July 2016 : 376pp
Pb: 978-1-498-77567-0 : **£52.99**
Hb: 978-1-138-40720-6 : **£200**
eBook: 978-1-315-36700-2

* For full contents and more information, visit: www.routledge.com/9781498775670

Introduction to Bioinformatics with R

A Practical Guide for Biologists



Edward Curry

Series: Chapman & Hall/CRC Computational Biology Series

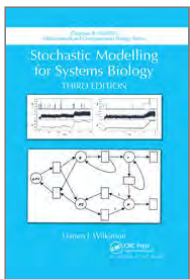
This book has been developed over years of training biological scientists and clinicians to analyse the large datasets available in their cancer research projects. Through the entire book, theoretical explanations are presented alongside step-by-step instructions for carrying out a number of widely-applicable data analysis tasks using freely available software. This book guides the reader through the basic principles of exploratory analysis and hypothesis testing in high-dimensional datasets, and the practicalities of installing statistical computing software and using this to handle different types of data tables.

Chapman & Hall
November 2020 : 310pp
Pb: 978-1-138-49571-5 : **£60.99**
Hb: 978-1-138-49895-2 : **£170**
eBook: 978-1-351-01531-8

* For full contents and more information, visit: www.routledge.com/9781138495715

3RD EDITION

Stochastic Modelling for Systems Biology, Third Edition



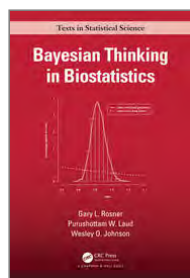
Darren J. Wilkinson

Having been thoroughly updated to reflect this, this third edition covers everything necessary for a good appreciation of stochastic kinetic modelling of biological networks in the systems biology context. New methods and applications are included in the book, and the use of R for practical illustration of the algorithms has been greatly extended. There is a whole new chapter on spatially extended systems, and the statistical inference chapter has also been extended with new methods, including approximate Bayesian computation (ABC). The book is now supplemented by an additional software library, written in Scala, described in a new appendix to the book.

Chapman & Hall
September 2020 : 404pp
Pb: 978-0-367-65693-5 : **£52.99**
Hb: 978-1-138-54928-9 : **£105**
eBook: 978-1-351-00091-8

* For full contents and more information, visit: www.routledge.com/9780367656935

Bayesian Thinking in Biostatistics



Gary L. Rosner Johns Hopkins Medicine, Baltimore, Maryland, USA, **Purushottam W. Laud**, **Wesley O. Johnson** UC Irvine

Series: Chapman & Hall/CRC Texts in Statistical Science

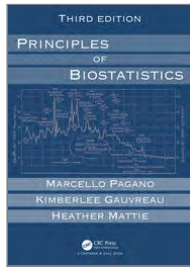
With discussions on many recent developments in Bayesian methodologies, *Bayesian Thinking in Biostatistics* considers statistical issues in biomedical research, allowing for greater collaborations between biostatisticians and biomedical researchers. The text presents biostatistical methods from a Bayesian perspective. It includes an overview of Bayesian statistics, a discussion of rates and proportions with applications in clinical and other population-based studies, recent developments in clinical trial design, methods for evaluating censored data and diagnostic tests, and problems resulting from multiple comparisons.

Chapman & Hall
March 2021 : 621 pp
Hb: 978-1-439-80008-9 : £125
eBook: 978-1-439-80010-2

* For full contents and more information, visit: www.routledge.com/9781439800089

3RD EDITION

Principles of Biostatistics



Marcello Pagano , Kimberlee Gauvreau , Heather Mattie Harvard T.H. Chan School of Public Health, MA, USA

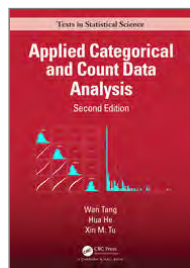
This book is a concepts-based introduction to statistical procedures that prepares public health, medical, and life sciences students to conduct and evaluate research. With an engaging writing style and helpful graphics, the emphasis is on concepts over formulas or rote memorization. Thoroughly revised and updated, this third edition includes a new chapter introducing the basic principles of Study Design, as well as new sections on sample size calculations for two-sample tests on means and proportions, the Kruskal-Wallis test, and the Cox proportional hazards model. It also includes additional review exercises in each chapter.

Chapman & Hall
June 2022 : 620pp
Hb: 978-0-367-35580-7 : **£86.99**
eBook: 978-0-429-34051-2

* For full contents and more information, visit: www.routledge.com/9780367355807

2ND EDITION

Applied Categorical and Count Data Analysis



Wan Tang Tulane University, New Orleans, LA, **Hua He** Tulane University, **Xin M. Tu** University of California-San Diego

Series: Chapman & Hall/CRC Texts in Statistical Science

This second edition explains how to perform the statistical analysis of discrete data, including categorical and count outcomes. It covers classic concepts and popular topics, such as logistic regression models, along with modern areas including models for zero-modified count outcomes. R, SAS, SPSS, and Stata programming codes are provided for all the examples. Designed for a one-semester course for graduate and senior undergraduate students in biostatistics, this self-contained text is also suitable as a self-learning guide for biomedical and psychosocial researchers. It will help readers analyze data with discrete variables in a wide range of research fields.

Chapman & Hall

April 2023 : 400pp

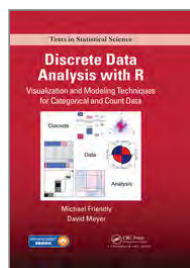
Hb: 978-0-367-56827-6 : **£83.99**

eBook: 978-1-003-10981-5

* For full contents and more information, visit: www.routledge.com/9780367568276

Discrete Data Analysis with R

Visualization and Modeling Techniques for Categorical and Count Data



Michael Friendly York University, Toronto, Ontario, Canada, **David Meyer** UAS Technikum Wien, Austria

Series: Chapman & Hall/CRC Texts in Statistical Science

This text presents an applied treatment of modern methods for the analysis of categorical data, both discrete response data and frequency data. It explains how to use graphical methods for exploring data, spotting unusual features, visualizing fitted models, and presenting results. Along with describing the necessary statistical theory, the authors illustrate the practical application of the techniques to a large number of substantive problems. The data sets and R code are available on a supplementary website.

Chapman & Hall

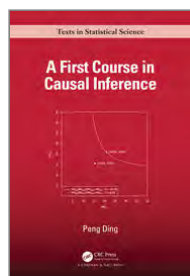
December 2015 : 564pp

Hb: 978-1-498-72583-5 : **£96.99**

eBook: 978-0-429-15443-0

* For full contents and more information, visit: www.routledge.com/9781498725835

A First Course in Causal Inference



Peng Ding University of California Berkeley, U.S.A

Series: *Chapman & Hall/CRC Texts in Statistical Science*

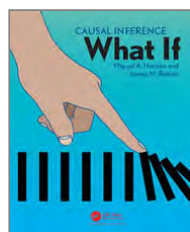
This textbook, based on the author's course on causal inference at UC Berkeley taught over the past seven years, only requires basic knowledge of probability theory, statistical inference, and linear and logistic regressions. It assumes minimal knowledge of causal inference, and reviews basic probability and statistics in the appendix. It covers causal inference from a statistical perspective and includes examples and applications from biostatistics and econometrics. This book is suitable for an advanced undergraduate or graduate-level course on causal inference, or postgraduate and PhD-level course in statistics and biostatistics departments.

Chapman & Hall
July 2024 : 448pp
Hb: 978-1-032-75862-6 : **£68.99**
eBook: 978-1-003-48408-0

* For full contents and more information, visit: www.routledge.com/9781032758626

Causal Inference

What If



Miguel A. Hernan Harvard School of Public Health, Boston, Massachusetts, USA, **James M. Robins** Harvard School of Pub Health, Boston, Massachusetts, USA

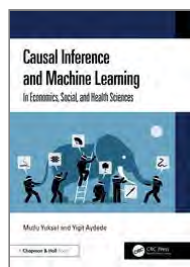
The application of causal inference methods is growing exponentially in fields that deal with observational data. Written by pioneers in the field, this practical book presents an authoritative yet accessible overview of the methods and applications of causal inference. With a wide range of detailed, worked examples using real epidemiologic data as well as software for replicating the analyses, the text provides a thorough introduction to the basics of the theory for non-time-varying treatments and the generalization to complex longitudinal data.

CRC Press
October 2026 : 312pp
Hb: 978-1-420-07616-5 : **£44.99**

* For full contents and more information, visit: www.routledge.com/9781420076165

Causal Inference and Machine Learning

In Economics, Social, and Health Sciences



Mutlu Yuksel Dalhousie University, Canada, **Yigit Aydede** Professor, Saint Mary's University

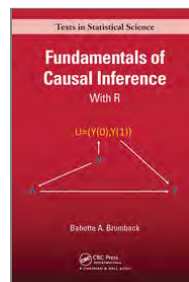
Bridges the gap between modern machine learning methods and the applied needs of economists, public health researchers, and social scientists. Designed with students and practitioners in mind, it introduces machine learning through causal inference. Offers a rigorous yet accessible roadmap for using data to answer real-world policy questions.

Chapman & Hall
December 2025 : 838pp
Hb: 978-1-032-82041-5 : **£94.99**
eBook: 978-1-003-50479-5

* For full contents and more information, visit: www.routledge.com/9781032820415

Fundamentals of Causal Inference

With R



Babette A. Brumback

Series: *Chapman & Hall/CRC Texts in Statistical Science*

Explains and relates different methods of confounding adjustment in terms of potential outcomes and graphical models, including standardization, difference-in-differences estimation, the front-door method, instrumental variables estimation, and propensity score methods.

Chapman & Hall
November 2021 : 248pp
Hb: 978-0-367-70505-3 : **£66.99**
eBook: 978-1-003-14667-4

* For full contents and more information, visit: www.routledge.com/9780367705053

2ND EDITION

The Effect

An Introduction to Research Design and Causality



Nick Huntington-Klein

This book is about research design, specifically concerning research that uses non-experimental data to figure out whether one thing causes another. It introduces the concept of identification thoroughly and clearly and discusses it as a process of trying to isolate variation that has a causal interpretation. Concepts are demonstrated with a heavy emphasis on graphical intuition and the question of what we do to data. When we "add a control variable" what does that actually do? The second edition features a new chapter on partial identification, updated materials, methods, and writing throughout, and additional materials for help navigating the book or in using the book in teaching.

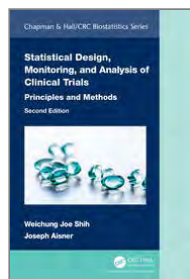
Chapman & Hall
July 2025 : 686pp
Pb: 978-1-032-58022-7 : **£41.99**
Hb: 978-1-032-58194-1 : **£130**
eBook: 978-1-003-44896-9

* For full contents and more information, visit: www.routledge.com/9781032580227

2ND EDITION

Statistical Design, Monitoring, and Analysis of Clinical Trials

Principles and Methods



Weichung Joe Shih Rutgers U School of Public Health, USA, **Joseph Aisner** Rutgers U Robert Wood Johnson Medical School, USA

Series: Chapman & Hall/CRC Biostatistics Series

This book concentrates on the biostatistics component of clinical trials. This new edition is updated throughout and includes three new chapters. Developed from the authors' courses taught to public health and medical students, residents, and fellows during the past 15 years, the text shows how biostatistics in clinical trials is an integration of many fundamental scientific principles and statistical methods. The book begins with ethical and safety principles, core trial design concepts, the principles and methods of sample size and power calculation, and analysis of covariance and stratified analysis.

Chapman & Hall

October 2021 : 404pp

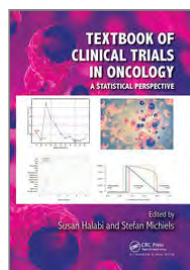
Hb: 978-0-367-77244-4 : **£94.99**

eBook: 978-1-003-17652-7

* For full contents and more information, visit: www.routledge.com/9780367772444

Textbook of Clinical Trials in Oncology

A Statistical Perspective



Edited by **Susan Halabi** , **Stefan Michiels**

This is a textbook on the design and analysis of cancer clinical trials. It opens with a discussion of the choice of endpoints before moving onto discuss various types of trials across all phases of study, including basket trials, non-inferiority trials and multi-arm trials. It then covers some methodological topics, including missing data and competing risks, before several chapters cover aspects of personalized medicine. It includes contributions from various leading teachers and researchers, all thoroughly edited to ensure it is consistent in terms of level and style. It has lots of examples and case studies, and includes exercises to enable use as a course text or for self-study.

Chapman & Hall

December 2020 : 644pp

Pb: 978-0-367-72957-8 : **£55.99**

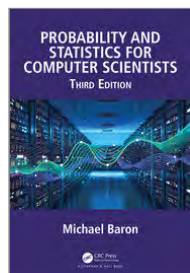
Hb: 978-1-138-08377-6 : **£155**

eBook: 978-1-315-11208-4

* For full contents and more information, visit: www.routledge.com/9780367729578

3RD EDITION

Probability and Statistics for Computer Scientists



Michael Baron American University, Washington, DC

Presenting probability and statistical methods, simulation techniques, and modeling tools, this textbook helps students solve problems and make optimal decisions in uncertain conditions, select stochastic models, compute probabilities and forecasts, and evaluate performance of computer systems and networks. This third edition adds coverage of R including code for data analysis examples in the book.

Chapman & Hall
June 2019: 486pp
Hb: 978-1-138-04448-7: £125
eBook: 978-1-315-17228-6

* For full contents and more information, visit: www.routledge.com/9781138044487

Computer Intensive Methods in Statistics



Silvelyn Zwanzig Uppsala University, Sweden, **Behrang Mahjani** Uppsala University, Sweden

This textbook gives an overview of statistical methods that have been developed during the last years due to increasing computer use, including random number generators, Monte Carlo methods, Markov Chain Monte Carlo (MCMC) methods, Bootstrap, EM algorithms, SIMEX, variable selection, density estimators, kernel estimators, orthogonal and local polynomial estimators, wavelet estimators, splines, and model assessment. Computer Intensive Methods in Statistics is written for students at graduate level, but can also be used by practitioners.

Chapman & Hall

December 2019 : 226pp

Pb: 978-0-367-19423-9 : **£60.99**

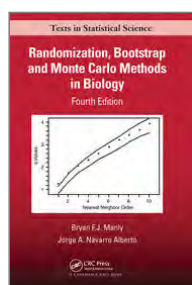
Hb: 978-0-367-19425-3 : **£170**

eBook: 978-0-429-20232-2

* For full contents and more information, visit: www.routledge.com/9780367194239

4TH EDITION

Randomization, Bootstrap and Monte Carlo Methods in Biology



Bryan F. J. Manly University of Otago, Dunedin, New Zealand, **Jorge A. Navarro Alberto**

Series: Chapman & Hall/CRC Texts in Statistical Science

Modern computer-intensive statistical methods play a key role in solving many problems across a wide range of scientific disciplines. Like its bestselling predecessors, the fourth edition of Randomization, Bootstrap and Monte Carlo Methods in Biology illustrates a large number of statistical methods with an emphasis on biological applications. The focus is now on the use of randomization, bootstrapping, and Monte Carlo methods in constructing confidence intervals and doing tests of significance. It provides comprehensive coverage of computer-intensive applications, with datasets available online.

Chapman & Hall

April 2022 : 358pp

Pb: 978-0-367-51287-3 : **£51.99**

Hb: 978-0-367-34994-3 : **£140**

eBook: 978-0-429-32920-3

* For full contents and more information, visit: www.routledge.com/9780367512873

2ND EDITION

Big Data and Social Science

Data Science Methods and Tools for Research and Practice



Edited by **Ian Foster** University of Chicago, Illinois, USA, **Rayid Ghani** University of Chicago, Illinois, USA, **Ron S. Jarmin**, **Frauke Kreuter** University of Maryland, USA; University of Mannheim, Germany; and Institute for Employment Research, Germany, **Julia Lane** New York University; American Institutes for Research, USA

Series: *Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences*

This classroom-tested book fills a major gap in graduate- and professional-level data science and social science education. It can be used to train a new generation of social data scientists to tackle real-world problems and improve the skills and competencies of applied social scientists and public policy practitioners. It empowers you to use the massive and rapidly growing amounts of available data to interpret economic and social activities in a scientific and rigorous manner.

Chapman & Hall
November 2020 : 412pp
Pb: 978-0-367-56859-7 : **£60.99**
Hb: 978-0-367-34187-9 : **£155**
eBook: 978-0-429-32438-3

* For full contents and more information, visit: www.routledge.com/9780367568597

Data Science

A First Introduction



Tiffany Timbers University of British Columbia, **Trevor Campbell**, **Melissa Lee**

Series: *Chapman & Hall/CRC Data Science Series*

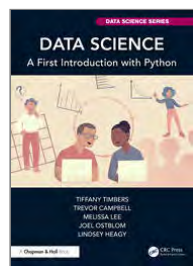
Data Science: A First Introduction focuses on using the R programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that are clear, reproducible, and shareable, and includes coverage of the basics of version control. All source code is available online, demonstrating the use of good reproducible project workflows.

Chapman & Hall
July 2022 : 456pp
Pb: 978-0-367-52468-5 : **£55.99**
Hb: 978-0-367-53217-8 : **£140**
eBook: 978-1-003-08097-8

* For full contents and more information, visit: www.routledge.com/9780367524685

Data Science

A First Introduction with Python



Tiffany Timbers University of British Columbia, **Trevor Campbell**, **Melissa Lee** Assistant Professor, Uni of British Columbia, Canada, **Joel Ostblom**, **Lindsey Heagy** Professor, Uni of British Columbia, Canada

Series: *Chapman & Hall/CRC Data Science Series*

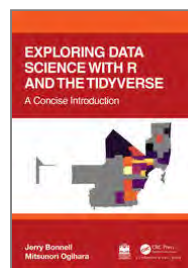
This book focuses on using the Python programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that are clear, reproducible, and shareable, and includes coverage of the basics of version control. All source code is available online, demonstrating the use of good reproducible project workflows. The book is designed for learners from all disciplines with minimal prior knowledge of mathematics and programming. The authors have honed the material through years of experience teaching.

Chapman & Hall
August 2024 : 452pp
Pb: 978-1-032-57223-9 : **£61.99**
Hb: 978-1-032-57219-2 : **£160**
eBook: 978-1-003-43839-7

* For full contents and more information, visit: www.routledge.com/9781032572239

Exploring Data Science with R and the Tidyverse

A Concise Introduction



Jerry Bonnell, **Mitsunori Ogihara** University of Miami, Coral Gables, Florida, USA

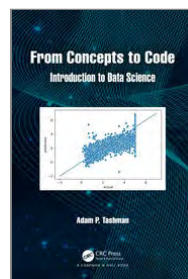
This book introduces the reader to data science using R and the tidyverse. No prerequisite knowledge is needed in college-level programming or mathematics (e.g., calculus or statistics). The book is self-contained so readers can immediately begin building data science workflows without needing to reference extensive amounts of external resources for onboarding. The contents are targeted for undergraduate students but are equally applicable to students at the graduate level and beyond. The book develops concepts using many real-world examples to motivate the reader. An exercise set is made available and designed for compatibility with automated grading tools for instructor use.

Chapman & Hall
August 2023 : 492pp
Pb: 978-1-032-34170-5 : **£80.99**
Hb: 978-1-032-32950-5 : **£205**
eBook: 978-1-003-32084-5

* For full contents and more information, visit: www.routledge.com/9781032341705

From Concepts to Code

Introduction to Data Science



Adam P. Tashman

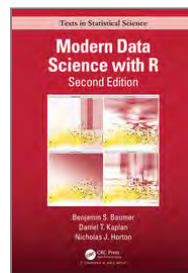
The breadth of problems that can be solved with data science is astonishing, and this book provides the required tools and skills to a broad audience. The reader takes a journey into the forms, uses, and abuses of data and models, and learns how to critically examine each step. Python coding and data analysis skills are built from the ground up, with no prior coding experience assumed. The necessary background in computer science, mathematics, and statistics is provided in an approachable manner. The book leverages content developed by the author for a full-year data science course suitable for advanced high school or early undergraduate students.

Chapman & Hall
April 2024 : 385pp
Pb: 978-1-032-51798-8 : **£61.99**
Hb: 978-1-032-51795-7 : **£160**
eBook: 978-1-003-40398-2

* For full contents and more information, visit: www.routledge.com/9781032517988

2ND EDITION

Modern Data Science with R



Benjamin S. Baumer Smith College, Northampton, MA, **Daniel T. Kaplan** Smith College, Northampton, MA, **Nicholas J. Horton** Amherst College, Amherst, MA

Series: *Chapman & Hall/CRC Texts in Statistical Science*

New data technologies and database systems facilitate scraping data and merging information from different sources and formats and restructuring data into a form suitable for analysis. State-of-the-art workflow and tools foster well-documented and reproducible analysis. Modern statistical methods allow the analyst to fit and assess models as well as to undertake supervised or unsupervised learning to extract information. Contemporary data science requires tight integration of these statistics, computing, data skills, mathematics, and communication. The text is intended for readers with some background in statistics and modest prior experience in scripting and programming.

Chapman & Hall
April 2021 : 650pp
Hb: 978-0-367-19149-8 : **£94.99**
eBook: 978-0-429-20071-7

* For full contents and more information, visit: www.routledge.com/9780367191498

Telling Stories with Data

With Applications in R



Rohan Alexander

Series: Chapman & Hall/CRC Data Science Series

The book equips students with the end-to-end skills needed to do data science. That means gathering, cleaning, preparing, and sharing data, then using statistical models to analyse data, writing about the results of those models, drawing conclusions from them, and finally, using the cloud to put a model into production, all done in a reproducible way. This book will achieve the goals by working through extensive case studies in terms of gathering and preparing data, and integrating ethics throughout. It is specifically designed around teaching how to write about the data and models, so aspects such as writing are explicitly covered.

Chapman & Hall

July 2023 : 622pp

Hb: 978-1-032-13477-2 : **£83.99**

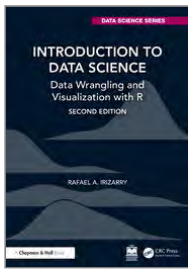
eBook: 978-1-003-22940-7

* For full contents and more information, visit: www.routledge.com/9781032134772

2ND EDITION

Introduction to Data Science

Data Wrangling and Visualization with R

**Rafael A. Irizarry***Series: Chapman & Hall/CRC Data Science Series*

Thoroughly revised and updated, this is the first book of the second edition of Introduction to Data Science: Data Wrangling and Visualization with R. It introduces skills that can help you tackle real-world data analysis challenges. No previous knowledge of R is necessary, although some experience with programming may be helpful. If you read and understand all the chapters and complete all the exercises in this book, and understand statistical concepts, you will be well-positioned to perform basic data analysis tasks and you will be prepared to learn the more advanced concepts and skills needed to become an expert.

Chapman & Hall
August 2024 : 346pp
Hb: 978-1-032-11655-6 : **£62.99**
eBook: 978-1-003-22092-3

* For full contents and more information, visit: www.routledge.com/9781032116556

Statistical Foundations of Data Science



Jianqing Fan Princeton University, New Jersey, USA,
Runze Li Pennsylvania State University, University Park, USA,
Cun-Hui Zhang Rutgers University, Piscataway, USA
, Hui Zou

Series: Chapman & Hall/CRC Data Science Series

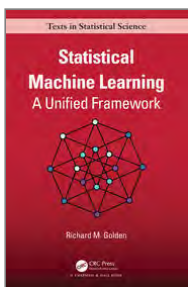
This book gives a comprehensive and systematic account of high-dimensional data analysis, including variable selection via regularization methods and sure independent feature screening methods. Offering more details on the topics than similar books, it is a valuable reference for researchers involved with model selection, variable selection, machine learning, and risk management. The book can also be used as a text for graduate and senior undergraduate students.

Chapman & Hall
August 2020 : 774pp
Hb: 978-1-466-51084-5 : **£125**
eBook: 978-0-429-09628-0

* For full contents and more information, visit: www.routledge.com/9781466510845

Statistical Machine Learning

A Unified Framework

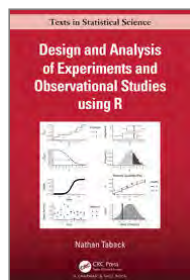
**Richard Golden***Series: Chapman & Hall/CRC Texts in Statistical Science*

For advanced undergraduate students, graduate students, and professional. Presents a wide range of popular, disparate, and diverse machine learning algorithms within a unified theoretical framework, characterized by a collection of carefully chosen theorems from the fields of nonlinear optimization theory and mathematical statistics which respectively characterize both asymptotic behavior and generalization performance. The purpose is to teach students how to confidently apply these theorems in practice. The only required mathematical prerequisites are lower-division linear algebra, lower-division calculus, and an upper-division calculus-based course in probability theory.

Chapman & Hall
July 2020 : 524pp
Hb: 978-1-138-48469-6 : **£125**
eBook: 978-1-351-05150-7

* For full contents and more information, visit: www.routledge.com/9781138484696

Design and Analysis of Experiments and Observational Studies using R



Nathan Taback University of Toronto, Canada

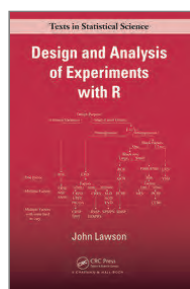
Series: Chapman & Hall/CRC Texts in Statistical Science

Introduction to Design and Analysis of Scientific Studies exposes undergraduate and graduate students to the foundations of classical experimental design and observational studies through a modern framework - The Rubin Causal Model. A causal inference framework is important in design, data collection and analysis since it provides a framework for investigators to readily evaluate study limitations and draw appropriate conclusions. R is used to implement designs and analyse the data collected.

Chapman & Hall
April 2022 : 292pp
Hb: 978-0-367-45685-6 : **£94.99**
eBook: 978-1-003-03369-1

* For full contents and more information, visit: www.routledge.com/9780367456856

Design and Analysis of Experiments with R



John Lawson Brigham Young University, Provo, Utah, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

This text presents a unified treatment of experimental designs and design concepts commonly used in practice. It connects the objectives of research to the type of experimental design required, describes the process of creating the design and collecting the data, shows how to perform the proper analysis of the data, and illustrates the interpretation of results. R code is used to create and analyze all the example experiments, with the code examples available on the author's website.

Chapman & Hall
December 2014 : 628pp
Hb: 978-1-439-86813-3 : **£125**
eBook: 978-0-429-15452-2

* For full contents and more information, visit: www.routledge.com/9781439868133

Experimental Design for Data Science and Engineering



V. Roshan Joseph Georgia Institute of Technology

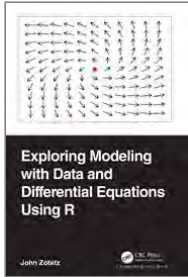
Series: Chapman & Hall/CRC Texts in Statistical Science

The book describes efficient statistical methods for making the experiments cheaper and computations faster for extracting valuable information from data and help identify discrepancies in the theory. It also includes recent advances in experimental designs for dealing with large amounts of observational data. Traditionally the design and analysis of physical and computer experiments are treated differently, but this book attempts to create a unified framework using Gaussian process models. A wide variety of topics are covered -- from designs for interpolating or integrating simple functions to designs that are useful for optimizing and calibrating complex computer models.

Chapman & Hall
March 2026 : 246pp
Hb: 978-1-041-11752-0 : **£94.99**
eBook: 978-1-003-66153-5

* For full contents and more information, visit: www.routledge.com/9781041117520

Exploring Modeling with Data and Differential Equations Using R



John Zobitz

The book provides a unique introduction to differential equations with applications to the biological and other natural sciences. Additionally, model parameterization and simulation of stochastic differential equations are explored, providing additional tools for model analysis and evaluation. This unified framework sits "at the intersection" of different mathematical subject areas, data science, statistics, and the natural sciences. The text throughout emphasizes data science workflows using the R statistical software program and the tidyverse constellation of packages. Only knowledge of calculus is needed.

Chapman & Hall

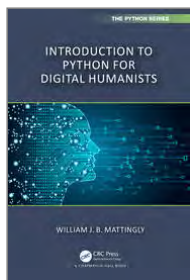
November 2022 : 378pp

Hb: 978-1-032-25948-2 : **£86.99**

eBook: 978-1-003-28697-4

* For full contents and more information, visit: www.routledge.com/9781032259482

Introduction to Python for Humanists



William Mattingly

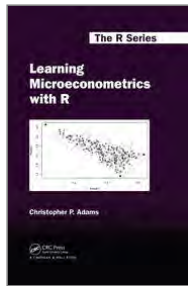
Series: Chapman & Hall/CRC The Python Series

This book will introduce digital humanists at all levels of education to Python. It provides background and guidance on learning the Python computer programming language, and as it presumes no knowledge on the part of the reader about computers or coding concepts allows the reader to gradually learn the more complex tasks that are currently popular in the field of digital humanities. This book will be aimed at undergraduates, graduates, and faculty who are interested in learning how to use Python as a tool within their workflow, and will act as a primer for students who wish to use Python, allowing them to engage with more advanced textbooks.

Chapman & Hall
July 2023 : 362pp
Pb: 978-1-032-37837-4 : **£48.99**
Hb: 978-1-032-37790-2 : **£130**
eBook: 978-1-003-34217-5

* For full contents and more information, visit: www.routledge.com/9781032378374

Learning Microeconometrics with R



Christopher P. Adams Federal Trade Commission

Series: Chapman & Hall/CRC The R Series

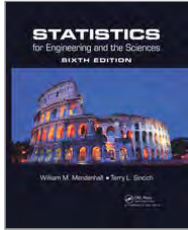
This book provides an introduction to the field of microeconometrics through the use of R. The focus is on applying current learning from the field to real world problems. It uses R to both teach the concepts of the field and show the reader how the techniques can be used. It is aimed at the general reader with the equivalent of a bachelor's degree in economics, statistics or some more technical field. It covers the standard tools of microeconometrics, OLS, instrumental variables, Heckman selection and difference in difference. In addition, it introduces bounds, factor models, mixture models and empirical Bayesian analysis.

Chapman & Hall
December 2020 : 398pp
Hb: 978-0-367-25538-1 : **£94.99**
eBook: 978-0-429-28833-3

* For full contents and more information, visit: www.routledge.com/9780367255381

6TH EDITION

Statistics for Engineering and the Sciences



William M. Mendenhall , Terry L. Sincich

Designed for a two-semester introductory course, this popular text continues to teach students the basic concepts of data description and statistical inference as well as the statistical methods necessary for real-world applications. Along with updated and reorganized material, this sixth edition includes many new and updated exercises based on contemporary engineering and scientific-related studies and real data. It also offers more statistical software printouts and corresponding instructions for use that reflect the latest versions of the SAS, SPSS, and MINITAB software.

Chapman & Hall

December 2015 : 1182pp

Hb: 978-1-498-72885-0 : **£94.99**

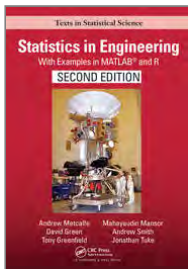
eBook: 978-0-429-07627-5

* For **full contents** and more information, visit: www.routledge.com/9781498728850

2ND EDITION

Statistics in Engineering

With Examples in MATLAB® and R, Second Edition



**Andrew Metcalfe , David Green , Tony Greenfield ,
Mayhayaudin Mansor , Andrew Smith , Jonathan
Tuke**

This is a textbook for an undergraduate course in statistics for engineers with a minimal calculus prerequisite. The second edition differs from existing books in three main aspects: it is the only introductory statistics textbook written for engineers that uses R throughout the text, there is an emphasis on statistical methods most relevant to engineers that are illustrated with practical applications, and there is an emphasis on random number generation and simulation, all very useful features in engineering.

Chapman & Hall

June 2020 : 810pp

Pb: 978-0-367-57062-0 : **£51.99**

Hb: 978-1-439-89547-4 : **£96.99**

eBook: 978-1-315-11723-2

* For **full contents** and more information, visit: www.routledge.com/9780367570620

Bringing Bayesian Models to Life



Mevin B. Hooten , Trevor Hefley

Bringing Bayesian Models to Life contains a comprehensive treatment of models and associated algorithms for fitting the models to data. We provide detailed and annotated R code in each chapter and apply it to fit each model we present to either real or simulated data for instructional purposes. Our code shows how to create every result and figure in the book so that readers can use and modify it for their own analyses. We provide all code and data in an organized set of directories available at the authors' websites.

CRC Press

June 2021 : 592pp

Pb: 978-1-032-09241-6 : **£50.99**

Hb: 978-0-367-19848-0 : **£78.99**

eBook: 978-0-429-24365-3

* For full contents and more information, visit: www.routledge.com/9781032092416

Introduction to Environmental Data Science



Jerry Davis Professor of Geography and Environmental Science, San Francisco State Uni, USA

Series: Chapman & Hall/CRC Data Science Series

Introduction to Environmental Data Science focuses on data science methods in the R language applied to environmental research, with sections on exploratory data analysis in R including data abstraction, transformation, and visualization; spatial data analysis in vector and raster models and more. It is an ideal textbook to teach undergraduate to graduate level students in environmental science, environmental studies, geography, earth science, and biology, but can also serve as a reference for environmental professionals working in consulting, NGOs, and government agencies at the local, state, federal, and international levels.

Chapman & Hall

March 2023 : 402pp

Hb: 978-1-032-32218-6 : **£83.99**

eBook: 978-1-003-31782-1

* For full contents and more information, visit: www.routledge.com/9781032322186

Spatio-Temporal Models for Ecologists



James Thorson , Kasper Kristensen

Series: Chapman & Hall/CRC Applied Environmental Statistics

This book seeks to introduce a minimal set of principles and numerical techniques for spatio-temporal statistics that can be used to implement a wide range of real-world ecological analyses regarding animal movement, population dynamics, community composition, causal attribution, and spatial dynamics. Techniques are showcased using real-world data from varied ecological systems, providing a toolset for hierarchical modelling of spatio-temporal processes. Spatio-Temporal Models for Ecologists is meant for graduate level students, alongside applied and academic ecologists. Step-by-step illustrations of techniques using R are provided.

Chapman & Hall

February 2024 : 294pp

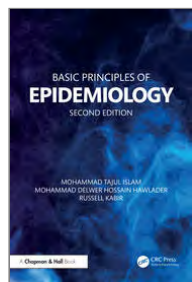
Hb: 978-1-032-53101-4 : **£86.99**

eBook: 978-1-003-41029-4

* For full contents and more information, visit: www.routledge.com/9781032531014

2ND EDITION

Basic Principles of Epidemiology



Mohammad Tajul Islam , Mohammad Delwer Hossain Hawlader , Russell Kabir

User-friendly textbook written with the aim of making easy learning of epidemiological methods and applying them in public health research.

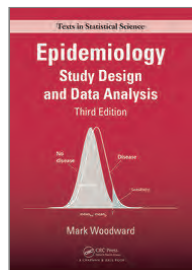
Chapman & Hall
January 2026 : 302pp
Hb: 978-1-041-10177-2 : **£94.99**
eBook: 978-1-003-65480-3

* For full contents and more information, visit: www.routledge.com/9781041101772

3RD EDITION

Epidemiology

Study Design and Data Analysis, Third Edition



Mark Woodward University of Oxford, UK; University of Sydney, Australia; and Johns Hopkins University, Baltimore, Maryland, USA, **Mark Woodward**

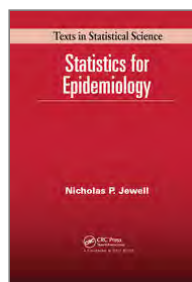
Series: Chapman & Hall/CRC Texts in Statistical Science

Updated and expanded, this popular text focuses on the quantitative aspects of epidemiological research. It shows students how statistical principles and techniques can help solve epidemiological problems. Along with more exercises and examples using both Stata and SAS, this third edition includes a new chapter on risk scores and clinical decision rules, a new chapter on computer-intensive methods, and new sections on binomial regression models, competing risk, information criteria, propensity scoring, and splines. Supporting materials are available on the book's CRC Press web page.

Chapman & Hall
December 2013 : 898pp
Hb: 978-1-439-83970-6 : **£92.99**
eBook: 978-0-429-19626-3

* For full contents and more information, visit: www.routledge.com/9781439839706

Statistics for Epidemiology



Nicholas P. Jewell University of California, Berkeley, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

Written by one of the top biostatisticians in the field, Statistics for Epidemiology fills a substantial niche by explaining the ideas behind the analysis of epidemiological data without requiring a high level of mathematics and without resorting to a 'cookbook' format. It covers the basic material for analyzing data that arise from simple epidemiological studies, including case-control and matched studies. Methodologically, it describes stratification techniques for handling confounding and interaction and the logistic regression model. The author uses a case-study approach, following a few simple examples through several method chapters rather than introducing a different example at each stage.

Chapman & Hall
August 2003 : 350pp
Hb: 978-1-584-88433-0 : **£125**
eBook: 978-0-429-17602-9

* For full contents and more information, visit: www.routledge.com/9781584884330

Algorithmic Trading and Quantitative Strategies



Raja Velu , Maxence Hardy , Daniel Nehren

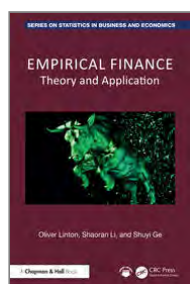
This book brings together the literature in main stream finance and the tools presented in quantitative finance with a focus on what is being practiced in industry. The author begins with the economic theory behind price formation and tests the model that results from the theory and suggests algorithms to detect and exploit the anomalies. The book provides a comprehensive description of the methodologies both published and unpublished, but being practiced. The strength of the book is the intuitive approach to developing algorithms – based on statistical techniques, machine learning ideas, and optimization methods.

Chapman & Hall
August 2020 : 450pp
Hb: 978-1-498-73716-6 : **£125**
eBook: 978-0-429-18394-2

* For full contents and more information, visit: www.routledge.com/9781498737166

Empirical Finance

Theory and Application



Oliver Linton , Shaoran Li , Shuyi Ge

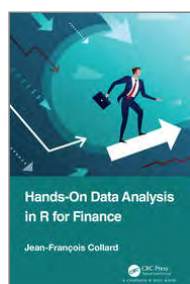
Series: Chapman and Hall/CRC Series on Statistics in Business and Economics

This book offers a modern, data-driven introduction to the field of finance, tailored for undergraduate students and practitioners seeking to bridge theory with real-world evidence. In an era defined by abundant data and computational power, this book emphasizes hands-on learning by integrating financial theory, empirical analysis, and practical implementation using Python and R. Each chapter balances intuitive explanations with mathematical rigor, ensuring that readers not only understand key concepts but also learn how to test them with actual data.

Chapman & Hall
April 2026 : 268pp
Hb: 978-1-032-89470-6 : **£94.99**
eBook: 978-1-003-54312-1

* For full contents and more information, visit: www.routledge.com/9781032894706

Hands-On Data Analysis in R for Finance



Jean-François Collard

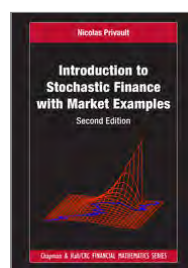
This textbook is an introduction to data science/data analysis applied to finance, using R and its most recent and freely available extension libraries. The target audience is undergrad data science, finance and graduate students, and practitioners or professionals who need a desk reference. This content has been tested in actual university classes, and makes the reader proficient in advanced methods such as machine learning, time series analysis and principal component analysis. It assumes no prior knowledge of R, providing comprehensive explanations on how to use the most recent resources, like financial and statistics libraries or open databases on the internet.

Chapman & Hall
November 2022 : 414pp
Hb: 978-1-032-34097-5 : **£86.99**
eBook: 978-1-003-32055-5

* For full contents and more information, visit: www.routledge.com/9781032340975

2ND EDITION

Introduction to Stochastic Finance with Market Examples



Nicolas Privault Nanyang Technological University, Singapore

Series: Chapman and Hall/CRC Financial Mathematics Series

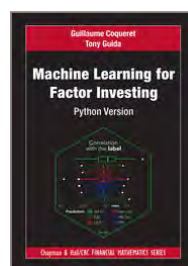
This book presents an introduction to pricing and hedging in discrete and continuous time financial models, emphasizing both analytical and probabilistic methods. It demonstrates both the power and limitations of mathematical models in finance, covering the basics of stochastic calculus for finance, and details the techniques required to model the time evolution of risky assets. With abundant exercises, problems with complete solutions, graphs and figures, and R coding examples, the book is primarily aimed at advanced undergraduate and graduate students as well as researchers and professionals in the field of applied mathematics, financial engineering, and economics.

Chapman & Hall
December 2022 : 662pp
Hb: 978-1-032-28826-0 : **£105**
eBook: 978-1-003-29867-0

* For full contents and more information, visit: www.routledge.com/9781032288260

Machine Learning for Factor Investing

Python Version



Guillaume Coqueret , Tony Guida

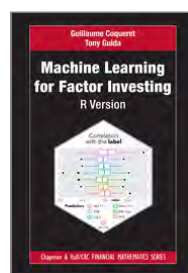
Series: Chapman and Hall/CRC Financial Mathematics Series

Machine learning (ML) is progressively reshaping the fields of quantitative finance and algorithmic trading. ML tools are increasingly adopted by hedge funds and asset managers, notably for alpha signal generation and stocks selection. The technicality of the subject can make it hard for non-specialists to join the bandwagon, as the jargon and coding requirements may seem out-of-reach. This book bridges this gap. It provides a comprehensive tour of modern ML-based investment strategies that rely on firm characteristics. Machine learning for factor investing: Python version deepens your financial and technical expertise.

Chapman & Hall
August 2023 : 358pp
Pb: 978-0-367-63972-3 : **£72.99**
Hb: 978-0-367-63974-7 : **£185**
eBook: 978-1-003-12159-6

* For full contents and more information, visit: www.routledge.com/9780367639723

Machine Learning for Factor Investing: R Version



Guillaume Coqueret , Tony Guida

Series: Chapman and Hall/CRC Financial Mathematics Series

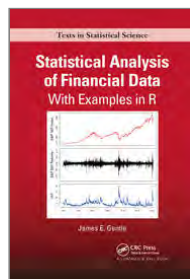
The aim of the book is to give an interpretation of ML tools through the lens of factor investing. Concepts illustrated with examples on the same (public) dataset throughout the book. Provides code samples and the corresponding results so that anybody can reproduce the steps.

Chapman & Hall
September 2020 : 342pp
Pb: 978-0-367-54586-4 : **£75.99**
Hb: 978-0-367-47322-8 : **£190**
eBook: 978-1-003-03485-8

* For full contents and more information, visit: www.routledge.com/9780367545864

Statistical Analysis of Financial Data

With Examples In R



James Gentle George Mason University

Series: *Chapman & Hall/CRC Texts in Statistical Science*

The book is about financial data, in particular, security prices and prices of derivatives, and the statistical methods for analyzing such data. It covers statistical models of branching processes, linear discrete time series models, and continuous-time stochastic models, all at an intermediate level (advanced undergraduate, or beginning graduate).

The book provides a brief introduction to R and uses R extensively to get and analyze data. Actual financial datasets are discussed and analyzed.

CRC Press

September 2021 : 666pp

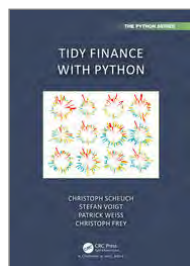
Pb: 978-1-032-17346-7 : **£51.99**

Hb: 978-1-138-59949-9 : **£125**

eBook: 978-0-429-48560-2

* For full contents and more information, visit: www.routledge.com/9781032173467

Tidy Finance with Python



Christoph Scheuch , Stefan Voigt , Patrick Weiss

Reykjavík University, Iceland, **Christoph Frey** Pinechip Capital, Germany

Series: *Chapman & Hall/CRC The Python Series*

This book shows how to bring theoretical concepts from finance and econometrics to the data. Focusing on coding and data analysis with Python, how to conduct research in empirical finance from scratch is shown. We start by introducing the concepts of tidy data and coding principles using pandas, numpy, and plotnine. Code is provided to prepare common open-source and proprietary financial data sources and organize them in a database. We reuse these data in all the subsequent chapters, which we keep as self-contained as possible. The empirical applications range from key concepts of empirical asset pricing to modeling and machine learning applications.

Chapman & Hall

July 2024 : 262pp

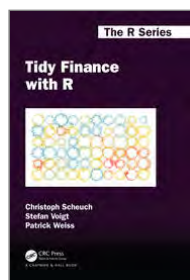
Pb: 978-1-032-67641-8 : **£67.99**

Hb: 978-1-032-68429-1 : **£175**

eBook: 978-1-032-68430-7

* For full contents and more information, visit: www.routledge.com/9781032676418

Tidy Finance with R



Christoph Scheuch , Stefan Voigt , Patrick Weiss

Series: *Chapman & Hall/CRC The R Series*

This textbook shows how to bring theoretical concepts from finance and econometrics to the data. Focusing on coding and data analysis with R, we show how to conduct research in empirical finance from scratch. We start by introducing the concepts of tidy data and coding principles using the tidyverse family of R packages. The empirical applications range from key concepts of empirical asset pricing to modeling and machine learning applications (fixed effects estimation, clustering standard errors, difference-in-difference estimators, ridge regression, Lasso, Elastic net, random forests, neural networks) and portfolio optimization techniques.

Chapman & Hall

April 2023 : 268pp

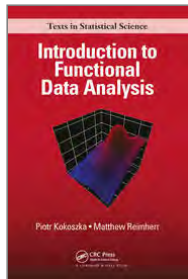
Pb: 978-1-032-38934-9 : **£67.99**

Hb: 978-1-032-38933-2 : **£175**

eBook: 978-1-003-34753-8

* For full contents and more information, visit: www.routledge.com/9781032389349

Introduction to Functional Data Analysis



Piotr Kokoszka , Matthew Reimherr

The book will provide an introduction to functional data analysis (FDA). This field of statistics has seen rapid development over the last two–three decades. At present, FDA has reached a certain maturity with its central ideas and methods crystalized; it is now generally viewed as a fundamental subfield of statistics. FDA methods have been applied to many fields of science, business and engineering. While new theoretical results, methodological tools, and novel applications are still being reported, the literature has become so vast that an introductory account will be useful to students and researchers seeking an accessible and sufficiently comprehensive introduction to the subject.

Chapman & Hall

June 2021 : 306pp

Pb: 978-1-032-09659-9 : **£51.99**

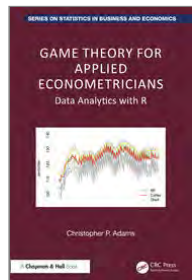
Hb: 978-1-498-74634-2 : **£140**

eBook: 978-1-315-11741-6

* For full contents and more information, visit: www.routledge.com/9781032096599

Game Theory for Applied Econometricians

Data Analytics with R



Christopher P. Adams Federal Trade Commission

Series: Chapman and Hall/CRC Series on Statistics in Business and Economics

Over the last 30 years the practice and use of game theory has changed dramatically, yet textbooks continue to present game theory with algebraic formalism and toy models. This book, on the other hand, illustrates game theory concepts using real-world data and analyses problems with real policy implications. The examples include an analysis of bargaining between hospitals and insurers, equilibrium entry of retail tire stores, bid rigging in timber auctions and contracts in 19th century whaling. This book is aimed at the general reader with the equivalent of a bachelor's degree in economics, statistics or some more technical field.

Chapman & Hall

May 2025 : 280pp

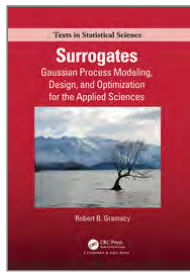
Hb: 978-1-032-39833-4 : **£94.99**

eBook: 978-1-003-35160-3

* For full contents and more information, visit: www.routledge.com/9781032398334

Surrogates

Gaussian Process Modeling, Design, and Optimization for the Applied Sciences



Robert B. Gramacy

Surrogates: a graduate textbook, or professional handbook, on topics at the interface between machine learning, spatial statistics, computer simulation, meta-modeling (i.e., emulation), design of experiments, and optimization. Experimentation through simulation, "human out-of-the-loop" statistical support (focusing on the science), management of dynamic processes, online and real-time analysis, automation, and practical application are at the forefront.

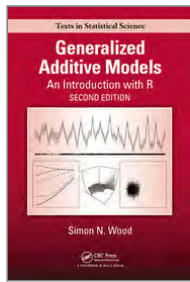
Chapman & Hall
December 2021 : 560pp
Pb: 978-1-032-24255-2 : **£45.99**
Hb: 978-0-367-41542-6 : **£125**
eBook: 978-0-367-81549-3

* For full contents and more information, visit: www.routledge.com/9781032242552

2ND EDITION

Generalized Additive Models

An Introduction with R, Second Edition



Simon N. Wood

Series: Chapman & Hall/CRC Texts in Statistical Science

The first edition of this book has established itself as one of the leading references on generalized additive models (GAMs), and the only book on the topic to be introductory in nature with a wealth of practical examples and software implementation. It is self-contained, providing the necessary background in linear models, linear mixed models, and generalized linear models (GLMs), before presenting a balanced treatment of the theory and applications of GAMs and related models. The author bases his approach on a framework of penalized regression splines, and while firmly focused on the practical aspects of GAMs, discussions include fairly full explanations of the theory underlying the methods. Use of R software helps explain the theory and illustrates the practical application of the methodology. Each chapter contains an extensive set of exercises, with solutions in an appendix or in the book's R data package gamair, to enable use as a course text or for self-study.

Chapman & Hall

May 2017 : 496pp

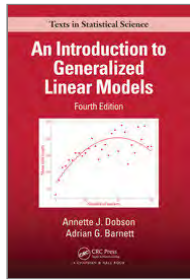
Hb: 978-1-498-72833-1 : **£86.99**

eBook: 978-1-315-37027-9

* For full contents and more information, visit: www.routledge.com/9781498728331

4TH EDITION

An Introduction to Generalized Linear Models



Annette J. Dobson University of Queensland, Herston, Australia, **Adrian G. Barnett** Queensland University of Technology, Kelvin Grove, Australia

Series: *Chapman & Hall/CRC Texts in Statistical Science*

This book provides a cohesive framework for statistical modelling, with an emphasis on numerical and graphical methods. This new edition of a bestseller has been updated with new sections on non-linear associations, strategies for model selection, and a Postface on good statistical practice. Like its predecessor, it presents the theoretical background of generalized linear models (GLMs) before focusing on methods for analyzing particular kinds of data. It covers Normal, Poisson, and Binomial distributions; linear regression models; classical estimation and model fitting methods; and frequentist methods of statistical inference. After forming this foundation, the authors explore multiple linear regression, analysis of variance (ANOVA), logistic regression, log-linear models, survival analysis, multilevel modeling, Bayesian models, and Markov chain Monte Carlo (MCMC) methods.

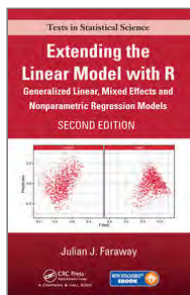
Chapman & Hall
April 2018 : 392pp
Pb: 978-1-138-74151-5 : **£80.99**
Hb: 978-1-138-74168-3 : **£175**
eBook: 978-1-315-18278-0

* For full contents and more information, visit: www.routledge.com/9781138741515

2ND EDITION

Extending the Linear Model with R

Generalized Linear, Mixed Effects and Nonparametric Regression Models, Second Edition



Julian J. Faraway University of Bath, UK

Series: *Chapman & Hall/CRC Texts in Statistical Science*

This second edition of a bestseller takes advantage of the greater functionality now available in R and substantially revises and adds several topics. It expands coverage of binary and binomial responses, incorporates many new sections, and adds a chapter on the Bayesian analysis of mixed effect models. It also revamps the R code throughout and updates the exercises, with solutions now included. The text explains data analysis using real examples and includes all the R commands necessary to reproduce the analyses.

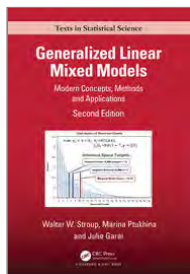
Chapman & Hall
March 2016 : 414pp
Hb: 978-1-498-72096-0 : **£96.99**
eBook: 978-1-315-38272-2

* For full contents and more information, visit: www.routledge.com/9781498720960

2ND EDITION

Generalized Linear Mixed Models

Modern Concepts, Methods and Applications



Walter W. Stroup University of Nebraska, Lincoln, USA, **Marina Ptukhina** Associate Professor, Whitman College, **Julie Garai** Associate Professor, Uni of Nebraska-Lincoln

Series: *Chapman & Hall/CRC Texts in Statistical Science*

Generalized Linear Mixed Models: Modern Concepts, Methods and Applications (2nd edition) presents an updated introduction to linear modeling using the generalized linear mixed model (GLMM) as the overarching conceptual framework. For students new to statistical modeling, this book helps them see the big picture – linear modeling as broadly understood and its intimate connection with statistical design and mathematical statistics. This second edition is updated to reflect lessons learned and experience gained regarding best practices and modelling choices faced by GLMM practitioners. New to this edition are two chapters focusing on Bayesian methods for GLMMs.

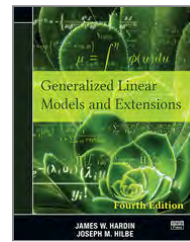
Chapman & Hall
May 2024 : 668pp
Hb: 978-1-498-75556-6 : **£80.99**
eBook: 978-0-429-09206-0

* For full contents and more information, visit: www.routledge.com/9781498755566

4TH EDITION

Generalized Linear Models and Extensions

Fourth Edition



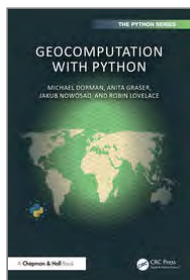
James W. Hardin University of South Carolina, Columbia, USA, **Joseph M. Hilbe** California Institute of Technology, Pasadena, and Arizona State University, Tempe, USA

Generalized linear models (GLMs) extend linear regression to models with a non-Gaussian, or even discrete, response. In this text, Hardin and Hilbe thoroughly cover GLMs both theoretically and computationally. Theoretical discussions include properties of distributions, maximum likelihood and iteratively reweighted least-squares estimations, estimation of standard errors, and model diagnostics. The authors also demonstrate how to fit models for continuous, binary, count, ordinal, and categorical outcomes using GLM and other Stata commands. New in the fourth edition are introductions to multivariate models and Bayesian analysis and examples of creating synthetic data for GLMs.

Stata Press
April 2018 : 598pp
Pb: 978-1-597-18225-6 : **£65.99**

* For full contents and more information, visit: www.routledge.com/9781597182256

Geocomputation with Python



Michael Dorman , Anita Graser , Jakub Nowosad , Robin Lovelace University of Leeds, UK

Series: Chapman & Hall/CRC The Python Series

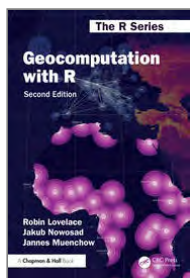
Geocomputation with Python is a comprehensive resource for working with geographic data with the most popular programming language in the world. The book gives an overview of Python's capabilities for spatial data analysis, as well as dozens of worked-through examples covering the entire range of standard GIS operations. Another unique feature is that this book is part of a wider community. Geocomputation with Python is a sister project of Geocomputation with R (Lovelace, Nowosad, and Muenchow 2019), a book on geographic data analysis, visualization, and modeling using the R programming language that has numerous contributors and an active community.

Chapman & Hall
February 2025 : 344pp
Pb: 978-1-032-46065-9 : **£58.99**
Hb: 978-1-032-45891-5 : **£160**
eBook: 978-1-003-37991-1

* For **full contents** and more information, visit: www.routledge.com/9781032460659

2ND EDITION

Geocomputation with R



Robin Lovelace University of Leeds, UK, **Jakub Nowosad , Jannes Muenchow** Friedrich Schiller University, Jena, Germany

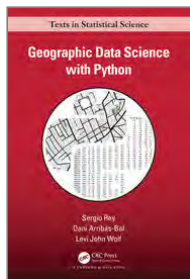
Series: Chapman & Hall/CRC The R Series

Geocomputation with R is for people who want to analyze, visualize, and model geographic data with open source software. The book provides a foundation for learning how to solve a wide range of geographic data analysis problems in a reproducible, and therefore scientifically sound and scalable way. The second edition features numerous updates, including the adoption of the high-performance terra package for all raster data processing, detailed coverage of the spherical geometry engine s2, updated information on coordinate reference systems and new content on openEO, STAC, COG, and gdalcubes. The book equips you with the knowledge and skills to tackle a wide range of issues.

Chapman & Hall
May 2025 : 420pp
Pb: 978-1-032-24888-2 : **£58.99**
Hb: 978-1-032-22979-9 : **£160**
eBook: 978-1-003-28056-9

* For **full contents** and more information, visit: www.routledge.com/9781032248882

Geographic Data Science with Python



Sergio Rey , Dani Arribas-Bel University of Liverpool, Merseyside, United Kingdom, **Levi John Wolf** School of Geographical Sciences

Series: Chapman & Hall/CRC Texts in Statistical Science

This book provides the tools, the methods, and the theory to meet the challenges of contemporary data science applied to geographic problems and data. In the new world of pervasive, large, frequent, and rapid data, there are new opportunities to understand and analyze the role of geography in everyday life. Geographic Data Science with Python introduces a new way of thinking about analysis, by using geographical and computational reasoning. Intended for data scientists, GIScientists, and geographers, the material provided in this book is of interest due to the manner in which it presents geospatial data, methods, tools, and practices in this new field.

Chapman & Hall
June 2023 : 410pp
Pb: 978-1-032-44595-3 : **£52.99**
Hb: 978-0-367-26311-9 : **£145**
eBook: 978-0-429-29250-7

* For **full contents** and more information, visit: www.routledge.com/9781032445953

Geographic Data Science with R

Visualizing and Analyzing Environmental Change



Michael C. Wimberly The University of Oklahoma, USA

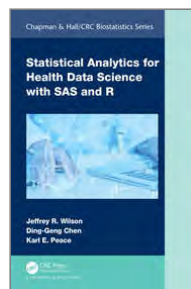
Series: Chapman & Hall/CRC Data Science Series

The purpose of this book is to provide a series of tutorials aimed at teaching good practices for using geospatial data to address problems in environmental geography. Fundamental techniques for processing and visualizing tabular, vector, and raster data are introduced through a series of practical examples followed by case studies that combine multiple types of data to address more complex problems. The book will have a broad audience. Students and professionals can use it as a workbook to learn high-level techniques for geospatial data processing and analysis with R. It is designed to be accessible to readers who have at least some knowledge of coding.

Chapman & Hall
May 2023 : 310pp
Hb: 978-1-032-34771-4 : **£86.99**
eBook: 978-1-003-32619-9

* For **full contents** and more information, visit: www.routledge.com/9781032347714

Statistical Analytics for Health Data Science with SAS and R



Jeffrey Wilson , Ding-Geng Chen , Karl E. Peace

Georgia Southern University, USA

Series: Chapman & Hall/CRC Biostatistics Series

This book is aimed to compile typical fundamental to advanced statistical methods to be used for health data sciences. This book promotes the applications to health and health-related data. The data and computing programs will be available to facilitate readers' learning experience. The primary readers would be applied data scientists and practitioners in any field of data science, applied statistical analysts and scientists in public health, academic researchers, and graduate students in statistics and biostatistics. The secondary readers would be R&D professionals/practitioners in industry and governmental agencies. This book can be used for both teaching and applied research.

Chapman & Hall

March 2023 : 280pp

Hb: 978-1-032-32562-0 : **£83.99**

eBook: 978-1-003-31567-4

* For full contents and more information, visit: www.routledge.com/9781032325620

R for Health Data Science



Ewen Harrison , Riinu Pius

In this age of information, the manipulation, analysis, and interpretation of data has become a fundamental part of professional life. From the understanding of disease and the development of new treatments, to the diagnosis and management of individual patients, the use of data and technology is now an integral part of the business of healthcare. Those working in healthcare interact daily with data, often without realising it. The conversion of this avalanche of information to useful knowledge is essential for high quality patient care. R for Health Data Analysis includes everything a healthcare professional needs to go from R Novice to R Guru.

Chapman & Hall

November 2020 : 364pp

Pb: 978-0-367-42819-8 : **£76.99**

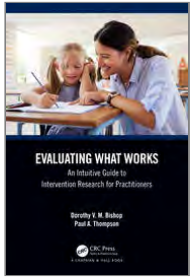
Hb: 978-0-367-42832-7 : **£195**

eBook: 978-0-367-85542-0

* For full contents and more information, visit: www.routledge.com/9780367428198

Evaluating What Works

An Intuitive Guide to Intervention Research for Practitioners



Dorothy V. M. Bishop University of Oxford, UK, **Paul Thompson** University of Warwick, UK

Those who work in allied health professions and education aim to make people's lives better. Often, however, it is hard to know how effective this work has been: would change have occurred if there was no intervention? Is it possible we are doing more harm than good? To answer these questions and develop a body of knowledge about what works, we need to evaluate interventions. This book is intended for those with little or no background in statistics, to give them the confidence to approach statistics in published literature with a critical eye, recognise when specialist advice is needed, and give them the ability to communicate more effectively with statisticians.

Chapman & Hall

December 2023 : 234pp

Pb: 978-1-032-59061-5 : **£50.99**

Hb: 978-1-032-59120-9 : **£135**

eBook: 978-1-003-45307-9

* For full contents and more information, visit: www.routledge.com/9781032590615

2ND EDITION

Modern Statistics with R

From Wrangling and Exploring Data to Inference and Predictive Modelling



Måns Thulin

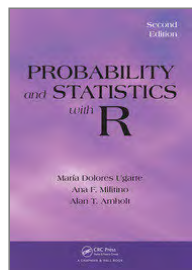
Recent decades have transformed the world of statistical data analysis, with new methods, new types of data, and new computational tools. Modern Statistics with R introduces key parts of this modern statistical toolkit. No prior programming experience is necessary. Clear explanations and examples are provided to accommodate readers at all levels of familiarity with statistical principles and coding practices. A basic understanding of probability theory can enhance comprehension of certain concepts discussed within this book. In addition to plenty of examples, the book includes more than 200 exercises, with fully worked solutions available at www.modernstatisticswithr.com.

Chapman & Hall
August 2024 : 492pp
Pb: 978-1-032-51244-0 : **£67.99**
Hb: 978-1-032-49745-7 : **£175**
eBook: 978-1-003-40133-9

* For full contents and more information, visit: www.routledge.com/9781032512440

2ND EDITION

Probability and Statistics with R



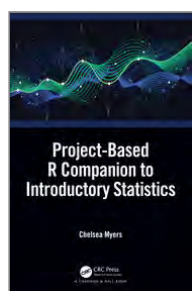
Maria Dolores Ugarte Public University of Navarre, Pamplona, Spain, **Ana F. Militino** Public University of Navarre, Pamplona, Spain, **Alan T. Arnholt** Appalachian State University, Boone, North Carolina, USA

Since the publication of the popular first edition, the contributed R packages on CRAN have increased from around 1,000 to over 6,000. This second edition explores how some of these new packages make analysis easier and more intuitive as well as create more visually pleasing graphs. Along with adding new examples and exercises, this edition improves the existing examples, problems, concepts, data, and functions. Data sets, R functions, and more are available online.

Chapman & Hall
July 2015 : 984pp
Hb: 978-1-466-50439-4 : **£115**
eBook: 978-0-429-09614-3

* For full contents and more information, visit: www.routledge.com/9781466504394

Project-Based R Companion to Introductory Statistics



Chelsea Myers

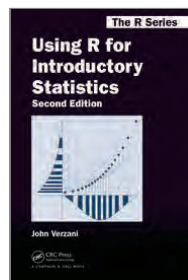
One of the most difficult transitions students face when beginning a first "real" job after college is moving beyond solving the well-designed problems found in textbooks to tackling the messy, complex problems they face in the real world. Statistics: A Project-Based Approach Using R is designed as a companion text for undergraduate students who wish to learn basic R programming and gain experience analyzing data from larger, real-world projects. Topics covered include working with R and RStudio, basic descriptive statistics, two-way tables, simple linear regression and hypothesis testing for means and proportions.

Chapman & Hall
December 2020 : 183pp
Pb: 978-0-367-26208-2 : **£55.99**
Hb: 978-0-367-68734-2 : **£155**
eBook: 978-0-429-29200-2

* For full contents and more information, visit: www.routledge.com/9780367262082

2ND EDITION

Using R for Introductory Statistics



John Verzani CUNY/College of Staten Island, New York, USA

Series: Chapman & Hall/CRC The R Series

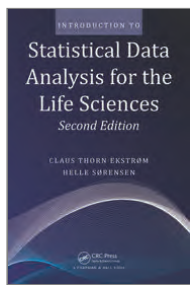
The second edition of a bestselling textbook, Using R for Introductory Statistics guides students through the basics of R, helping them overcome the sometimes steep learning curve. The author does this by breaking the material down into small, task-oriented steps. The second edition maintains the features that made the first edition so popular, while updating data, examples, and changes to R in line with the current version.

Chapman & Hall
June 2014 : 518pp
Hb: 978-1-466-59073-1 : **£67.99**
eBook: 978-1-315-37308-9

* For full contents and more information, visit: www.routledge.com/9781466590731

2ND EDITION

Introduction to Statistical Data Analysis for the Life Sciences



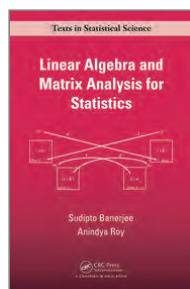
Claus Thorn Ekstrøm University of Copenhagen, Denmark, **Helle Sørensen** University of Copenhagen, Denmark

Using R throughout, this popular textbook presents the right balance of data examples, statistical theory, and computing to teach introductory statistics to students in the life sciences. Expanded with over 100 more pages, this edition includes a new chapter on non-linear regression models and a new chapter that contains examples of complete data analyses. It also incorporates additional exercises in most chapters as well as a summary of statistical formulas related to the specific designs used to teach the statistical concepts.

Chapman & Hall
November 2014 : 526pp
Pb: 978-1-482-23893-8 : **£67.99**
Hb: 978-1-138-44574-1 : **£205**
eBook: 978-0-429-06942-0

* For full contents and more information, visit: www.routledge.com/9781482238938

Linear Algebra and Matrix Analysis for Statistics



Sudipto Banerjee University of California, Los Angeles, USA, **Anindya Roy** Department of Math and Statistics, University of Maryland Baltimore County, USA

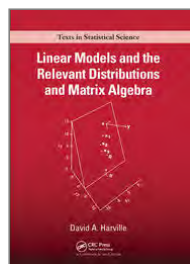
Series: Chapman & Hall/CRC Texts in Statistical Science

Assuming no prior knowledge of linear algebra, this self-contained text offers a gradual exposition to linear algebra without sacrificing the rigor of the subject. It presents both the vector space approach and the canonical forms in matrix theory. The book covers important topics in linear algebra that are useful for statisticians, including the concept of rank, the fundamental theorem of linear algebra, projectors, and quadratic forms. It also provides an extensive collection of exercises on theoretical concepts and numerical computations.

Chapman & Hall
June 2014 : 582pp
Hb: 978-1-420-09538-8 : **£94.99**
eBook: 978-0-429-17413-1

* For full contents and more information, visit: www.routledge.com/9781420095388

Linear Models and the Relevant Distributions and Matrix Algebra



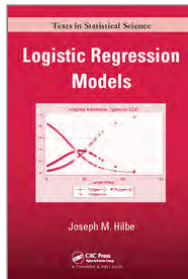
David A. Harville

The book describes the use of linear statistical models as a basis for statistical inference and the theoretical underpinnings of the resultant inferential procedures. It covers the relevant distributions and matrix algebra that is relatively complete and self-contained. Derivations or proofs are provided for almost all results; some of these are not readily available from other sources. The book includes coverage of some topics that are typically covered less extensively or not covered at all in other books on linear models; among these topics are prediction, multiple-comparison procedures for controlling the FDR, and spherical/elliptical distributions.

Chapman & Hall
June 2020 : 538pp
Pb: 978-0-367-57203-7 : **£45.99**
Hb: 978-1-138-57833-3 : **£155**
eBook: 978-1-351-26468-6

* For full contents and more information, visit: www.routledge.com/9780367572037

Logistic Regression Models



Joseph M. Hilbe California Institute of Technology, Pasadena, and Arizona State University, Tempe, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

Logistic regression is increasingly being taught in individual short courses or as a major component of a course on categorical data analysis. Based on a successful short course taught by the author, this text provides an overview of logistic regression models with a particular emphasis on their practical application. It covers the basic derivation of logistic models, their interpretation, various goodness-of-fit tests, overdispersion and how it can be handled, how models can be ill-fitted, and several extended models. Full of examples of real data taken from the medical and social sciences, the text implements the examples using Stata and R.

Chapman & Hall
May 2017 : 656pp
Pb: 978-1-138-10671-0 : **£59.99**
Hb: 978-1-420-07575-5 : **£170**
eBook: 978-0-429-14913-9

* For full contents and more information, visit: www.routledge.com/9781138106710

Applied Linear Regression for Longitudinal Data

With an Emphasis on Missing Observations



Frans E.S. Tan , Shahab Jolani

Series: Chapman & Hall/CRC Texts in Statistical Science

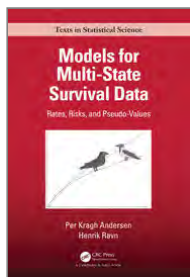
This book introduces best practices in longitudinal data analysis at intermediate level, with a minimum number of formulas without sacrificing depths. It meets the need to understand statistical concepts of longitudinal data analysis by visualizing important techniques instead of using abstract mathematical formulas. Different solutions such as multiple imputation are explained conceptually and consequences of missing observations are clarified using visualization techniques. It is the ideal companion for researcher and students in epidemiological, health, and social and behavioral sciences working with longitudinal studies without a mathematical background.

Chapman & Hall
December 2022 : 248pp
Hb: 978-0-367-63431-5 : **£105**
eBook: 978-1-003-12138-1

* For **full contents** and more information, visit: www.routledge.com/9780367634315

Models for Multi-State Survival Data

Rates, Risks, and Pseudo-Values



Per Kragh Andersen Biostatistics, University of Copenhagen, **Henrik Ravn** Novo Nordisk A/S

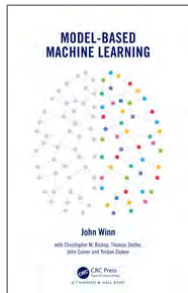
Series: Chapman & Hall/CRC Texts in Statistical Science

Multi-state models provide a statistical framework for studying longitudinal data on subjects when focus is on the occurrence of events that the subjects may experience over time. They find application particularly in biostatistics, medicine, and public health. The book includes mathematical detail which can be skipped by readers more interested in the practical examples. It is aimed at biostatisticians and at readers with an interest in the topic having a more applied background, such as epidemiology.

Chapman & Hall
October 2023 : 292pp
Hb: 978-0-367-14002-1 : **£86.99**
eBook: 978-0-429-02968-4

* For **full contents** and more information, visit: www.routledge.com/9780367140021

Model-Based Machine Learning



John Winn Microsoft Research Ltd., Cambridge, United Kingdom

Machine learning is being applied to a growing variety of problems in a variety of domains. A fundamental challenge when using machine learning is connecting the abstract mathematics of a machine learning technique to real world problems. This book tackles this through model-based machine learning, focusing on understanding the assumptions encoded in a machine learning system and their impact on the behaviour of the system. The key ideas of model-based machine learning are introduced through case studies involving real-world applications. It aims not just to explain machine learning methods, but also how to create, debug, and evolve them to solve a problem.

Chapman & Hall

October 2023 : 468pp

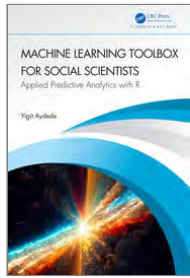
Hb: 978-1-498-75681-5 : **£75.99**

eBook: 978-0-429-19268-5

* For full contents and more information, visit: www.routledge.com/9781498756815

Machine Learning Toolbox for Social Scientists

Applied Predictive Analytics with R



Yigit Aydede Professor, Saint Mary's University

Machine Learning Toolbox for Social Scientists covers predictive methods with complementary statistical "tools" that make it mostly self-contained. The inferential statistics is the traditional framework for most data analytics courses in social science and business fields, especially in Economics and Finance. The new organization that this book offers goes beyond standard machine learning code applications, providing intuitive backgrounds for new predictive methods that social science and business students can follow. The modern statistical methods the book provides allows it to be effectively used in teaching in the social science and business fields.

Chapman & Hall

September 2023 : 600pp

Hb: 978-1-032-46395-7 : **£86.99**

eBook: 978-1-003-38150-1

* For full contents and more information, visit: www.routledge.com/9781032463957

Foundations of Statistics for Data Scientists

With R and Python



Alan Agresti, Maria Kateri

Series: Chapman & Hall/CRC Texts in Statistical Science

Designed as a textbook for a one or two-term introduction to mathematical statistics for students training to become data scientists, *Foundations of Statistics for Data Scientists: With R and Python* is an in-depth presentation of the topics in statistical science

Chapman & Hall

November 2021 : 486pp

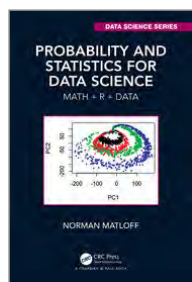
Hb: 978-0-367-74845-6 : **£94.99**

eBook: 978-1-003-15983-4

* For full contents and more information, visit: www.routledge.com/9780367748456

Probability and Statistics for Data Science

Math + R + Data



Norman Matloff

Series: Chapman & Hall/CRC Data Science Series

This text is designed for a one-semester junior/senior/graduate-level calculus-based course on probability and statistics, aimed specifically at data science students (including computer science). In addition to calculus, the text assumes basic knowledge of matrix algebra and rudimentary computer programming. The key difference is the consistently applied approach, pervasive throughout the book. The overriding goal is to stay mathematically precise, yet emphasize intuition, modeling and applications.

Chapman & Hall

June 2019 : 444pp

Pb: 978-1-138-39329-5 : **£66.99**

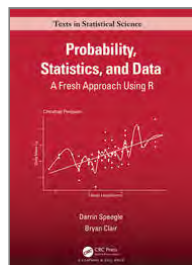
Hb: 978-0-367-26093-4 : **£175**

eBook: 978-0-429-40186-2

* For full contents and more information, visit: www.routledge.com/9781138393295

Probability, Statistics, and Data

A Fresh Approach Using R



Darrin Speegle Department of Mathematics and Statistics Saint Louis University, MO, USA, **Bryan Clair** Saint Louis University, MO, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

This book is a first course in probability and statistics using R. The book assumes a mathematical background of Calculus II, though much of the book can be read with a much lower level of mathematics. The book incorporates R throughout all sections via simulations, data wrangling and/or data visualization. Tidyverse and base R tools are interspersed, depending on which is better for a particular job. For most visualizations, ggplot is used, and for most data wrangling, dplyr is used.

Chapman & Hall

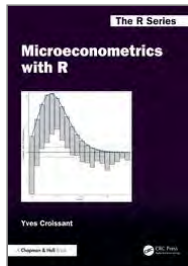
November 2021 : 512pp

Hb: 978-0-367-43667-4 : **£94.99**

eBook: 978-1-003-00489-9

* For full contents and more information, visit: www.routledge.com/9780367436674

Microeconometrics with R



Yves Croissant Université de La Reunion, France

Series: Chapman & Hall/CRC The R Series

Microeconometrics became increasingly popular in the last decades, thanks to the availability of many individual data sets and to the development of computer performance. The book is devoted to the ordinary least square estimator. Matrix algebra is progressively introduced in this part and a special attention is paid on the interpretation of the estimated coefficients. It also goes beyond the basic OLS estimator by testing the hypothesis on which this estimator is based on and providing more complex estimators relevant when some of these hypotheses are violated. The book also presents specific estimators devoted to « special » responses, eg count, binomial or duration data.

Chapman & Hall
February 2025 : 516pp
Hb: 978-0-367-55446-0 : **£94.99**
eBook: 978-1-003-10026-3

* For full contents and more information, visit: www.routledge.com/9780367554460

2ND EDITION

Statistical Methods for Handling Incomplete Data

**Jae Kwang Kim , Jun Shao**

Due to recent theoretical findings and advances in statistical computing, there has been a rapid development of techniques and applications in the area of missing data analysis. Statistical Methods for Handling Incomplete Data covers the most up-to-date statistical theories and computational methods for analyzing incomplete data. The book is primarily aimed at researchers and graduate students from statistics, and could be used as a reference by applied researchers with a good quantitative background. It includes many real data examples and simulated examples to help readers understand the methodologies.

Chapman & Hall
January 2024 : 380pp
Pb: 978-1-032-11813-0 : **£48.99**
Hb: 978-0-367-28054-3 : **£125**
eBook: 978-0-429-32174-0

* For full contents and more information, visit: www.routledge.com/9781032118130

2ND EDITION

Multivariate Analysis for the Behavioral Sciences, Second Edition



Kimmo Vehkalahti , Brian S. Everitt

Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

Multivariate Analysis for the Behavioral Sciences, Second Edition is designed to show how a variety of statistical methods can be used to analyse data collected by psychologists and other behavioral scientists. Assuming some familiarity with introductory statistics, the book begins by briefly describing a variety of study designs used in the behavioral sciences, and the concept of models for data analysis. The contentious issues of p-values and confidence intervals are also discussed in the introductory chapter.

CRC Press

September 2020 : 438pp

Pb: 978-0-367-65675-1 : **£52.99**

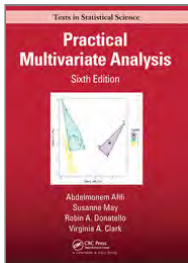
Hb: 978-0-815-38515-8 : **£89.99**

eBook: 978-1-351-20227-5

* For full contents and more information, visit: www.routledge.com/9780367656751

6TH EDITION

Practical Multivariate Analysis



Abdelmonem Afifi , Susanne May , Robin Donatello , Virginia A. Clark

This is the sixth edition of a popular textbook on multivariate analysis. Well-regarded for its practical and accessible approach, with excellent examples and good guidance on computing, the book is particularly popular for teaching outside statistics, i.e. in epidemiology, social science, business, etc. The sixth edition has been updated with a new chapter on data visualization, and many new updates and references throughout. This new edition will enable the book to continue as one of the leading textbooks in the area, particularly for non-statisticians.

Chapman & Hall

June 2021 : 434pp

Pb: 978-1-032-08847-1 : **£51.99**

Hb: 978-1-138-70222-6 : **£96.99**

eBook: 978-1-315-20373-7

* For full contents and more information, visit: www.routledge.com/9781032088471

Multivariate Statistics

Classical Foundations and Modern Machine Learning



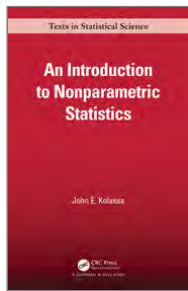
Hemant Ishwaran University of Miami, U.S.A

This book explores multivariate statistics from both traditional and modern perspectives. The first section covers core topics like multivariate normality, MANOVA, discrimination, PCA, and canonical correlation analysis. The second section includes modern concepts such as gradient boosting, random forests, variable importance, and causal inference. Another central theme is the concept of training error. While introductory courses often emphasize that reducing training error can lead to overfitting, training error is also known as empirical risk. Empirical risk is vital in statistical learning theory and is key to determining whether learning is possible.

Chapman & Hall
March 2025 : 486pp
Hb: 978-1-032-75879-4 : **£135**
eBook: 978-1-003-49367-9

* For full contents and more information, visit: www.routledge.com/9781032758794

An Introduction to Nonparametric Statistics



John E. Kolassa

Series: Chapman & Hall/CRC Texts in Statistical Science

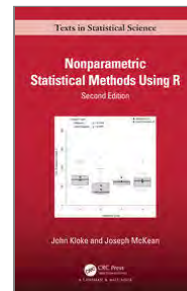
This book presents the theory and practice of non-parametric statistics, with an emphasis on motivating principals. The course is a combination of traditional rank based methods and more computationally-intensive topics like density estimation, kernel smoothers in regression, and robustness. The text is aimed at MS students.

Chapman & Hall
September 2020 : 224pp
Hb: 978-0-367-19484-0 : **£96.99**
eBook: 978-0-429-20275-9

* For full contents and more information, visit: www.routledge.com/9780367194840

2ND EDITION

Nonparametric Statistical Methods Using R



John Kloe , Joseph McKean

Series: Chapman & Hall/CRC Texts in Statistical Science

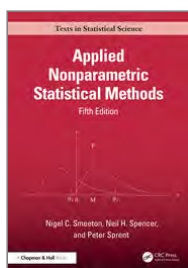
This thoroughly updated and expanded second edition covers traditional nonparametric methods and rank-based analyses. Two new chapters covering multivariate analyses and big data have been added. Core classical nonparametrics chapters on one- and two-sample problems have been expanded to include discussions on ties as well as power and sample size determination. The book is suitable for advanced undergraduate and graduate students in statistics and data science, and students of other majors with a solid background in statistical methods including regression and ANOVA. It will also be of use to researchers working with nonparametric and rank-based methods in practice.

Chapman & Hall
May 2024 : 480pp
Hb: 978-0-367-65135-0 : **£72.99**
eBook: 978-1-003-03961-7

* For full contents and more information, visit: www.routledge.com/9780367651350

5TH EDITION

Applied Nonparametric Statistical Methods



Nigel Smeeton , Neil H. Spencer , Peter Sprent Guy's King & St. Thomas School of Medicine, London, UK

Series: Chapman & Hall/CRC Texts in Statistical Science

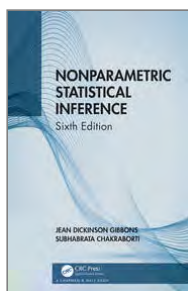
A comprehensive course text in nonparametric techniques suitable for undergraduate mathematics students. It assumes only basic previous experience of statistics and with algebra kept to a minimum it is also ideal for quantitative methods modules delivered to undergraduate or postgraduate students in science, business, and health service training. It is an invaluable resource for researchers, medical practitioners, business managers, research and development staff, and others needing to interpret quantitative information.

Chapman & Hall
March 2025 : 476pp
Hb: 978-0-367-34489-4 : **£89.99**
eBook: 978-0-429-32617-2

* For full contents and more information, visit: www.routledge.com/9780367344894

6TH EDITION

Nonparametric Statistical Inference



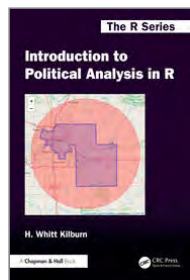
Jean Dickinson Gibbons , Subhadrata Chakraborti

Since its first publication in 1971, Nonparametric Statistical Inference has been widely regarded as the source for learning about nonparametrics. The sixth edition carries on this tradition and incorporates computer solutions based on R and has been thoroughly revised and rewritten to make it more readable and reader-friendly. All of the R solutions are new and make this book much more useful for applications in the modern times. It has been updated throughout and contains 100 new citations, including some of the most recent, to make it more current and useful for researchers.

Chapman & Hall
December 2020 : 694pp
Hb: 978-1-138-08744-6 : **£125**
eBook: 978-1-315-11047-9

* For full contents and more information, visit: www.routledge.com/9781138087446

Introduction to Political Analysis in R



H. Whitt Kilburn

Series: Chapman & Hall/CRC The R Series

Introduction to Political Analysis in R is a comprehensive guide for students and researchers eager to delve into the intersection of data science, statistics, and political science. Aimed at equipping readers with the essential quantitative skills to analyze political data, the book bridges practical coding techniques in R with foundational statistical concepts, emphasizing real-world applications in politics.

Chapman & Hall

July 2025 : 438pp

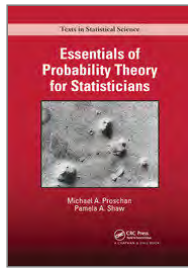
Pb: 978-1-032-55658-1 : **£56.99**

Hb: 978-1-032-55451-8 : **£145**

eBook: 978-1-003-43155-8

* For full contents and more information, visit: www.routledge.com/9781032556581

Essentials of Probability Theory for Statisticians



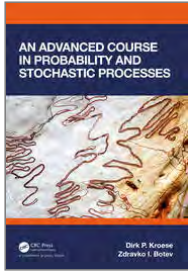
Michael A. Proschan , Pamela A. Shaw

This text provides graduate students with a rigorous treatment of probability theory, with an emphasis on results central to theoretical statistics. It presents classical probability theory motivated with illustrative examples in biostatistics, such as outlier tests, monitoring clinical trials, and using adaptive methods to make design changes based on accumulating data. In addition, counterexamples further clarify nuances in meaning and expose common fallacies in logic. The authors explain different methods of proofs and show how they are useful for establishing classic probability results.

Chapman & Hall
December 2019 : 344pp
Pb: 978-0-367-87163-5 : **£66.99**
Hb: 978-1-498-70419-9 : **£96.99**
eBook: 978-1-315-37057-6

* For full contents and more information, visit: www.routledge.com/9780367871635

An Advanced Course in Probability and Stochastic Processes



Dirk P. Kroese University of Queensland, Australia,
Zdravko Botev University of New South Wales, Australia

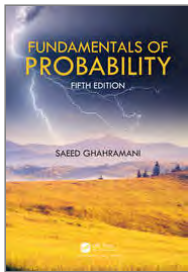
An Advanced Course in Probability and Stochastic Processes provides a modern and rigorous treatment of probability theory and stochastic processes at an upper undergraduate and graduate level. Starting with the foundations of measure theory, this book introduces the key concepts of probability theory in an accessible way, providing full proofs and extensive examples and illustrations. Fundamental stochastic processes like Gaussian processes, Poisson random measures, Lévy processes, Markov processes, and Itô processes are explored in considerable depth. This book is meant for students and researchers who have a solid mathematical background.

Chapman & Hall
 December 2023 : 378pp
 Hb: 978-1-032-32046-5 : £105
 eBook: 978-1-003-31501-8

* For full contents and more information, visit: www.routledge.com/9781032320465

5TH EDITION

Fundamentals of Probability



Saeed Ghahramani Western New England University,
 Springfield, Massachusetts, USA

This one- or two-term calculus-based basic probability text is written for majors in mathematics, physical sciences, engineering, statistics, actuarial science, business and finance, operations research, and computer science. It presents probability in a natural way: through interesting and instructive examples and exercises that motivate the theory, definitions, theorems, and methodology. This book is mathematically rigorous and, at the same time, closely matches the historical development of probability.

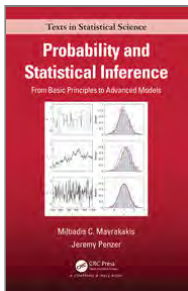
Whenever appropriate, historical remarks are included, and the 2096 examples and exercises have been designed to arouse curiosity and encourage students to delve into the theory.

Chapman & Hall
 May 2024 : 700pp
 Hb: 978-1-032-36608-1 : £130
 IEPB: 978-1-032-80353-1 : £49.99
 eBook: 978-1-003-33289-3

* For full contents and more information, visit: www.routledge.com/9781032366081

Probability and Statistical Inference

From Basic Principles to Advanced Models



Miltiadis C. Mavrakakis Imperial College London,
 United Kingdom, **Jeremy Penzer** London School of
 Economics, UK

Series: Chapman & Hall/CRC Texts in Statistical Science

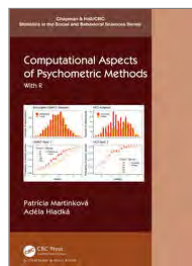
This book covers aspects of probability, distribution theory, and inference that are fundamental to a proper understanding of data analysis and statistical modelling. It presents these topics in an accessible manner without sacrificing mathematical rigour, bridging the gap between the many excellent introductory books and the more advanced, graduate-level texts. The book introduces and explores techniques that are relevant to modern practitioners, while being respectful to the history of statistical inference. It seeks to provide a thorough grounding in both the theory and application of statistics, with even the more abstract parts placed in the context of a practical setting.

Chapman & Hall
 September 2022 : 444pp
 Pb: 978-0-367-74912-5 : £51.99
 Hb: 978-1-584-88939-7 : £140
 eBook: 978-1-315-36663-0

* For full contents and more information, visit: www.routledge.com/9780367749125

Computational Aspects of Psychometric Methods

With R



Patricia Martinková Sr. researcher, Institute Comp. Sci, Czech Academy of Sci., **Adéla Hladká** Postdoc Fellow, Institute of Comp. Sci, Czech Academy of Sci.

Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

This book covers the computational aspects of psychometric methods involved in developing measurement instruments and analyzing measurement data in social sciences. It covers the main topics of psychometrics such as validity, reliability, item analysis, item response theory models, and computerized adaptive testing. The book is intended for a wide range of researchers in the field of educational, psychological, and health-related measurements, and also those developing measurement instruments and for those collecting and analyzing data from behavioral measurements, who are searching for a deeper understanding of underlying models and further development of analytical skills.

Chapman & Hall

July 2023 : 348pp

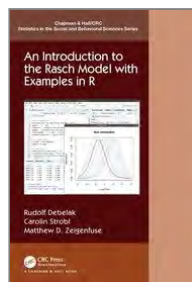
Pb: 978-0-367-51539-3 : **£60.99**

Hb: 978-0-367-51538-6 : **£155**

eBook: 978-1-003-05431-3

* For full contents and more information, visit: www.routledge.com/9780367515393

An Introduction to the Rasch Model with Examples in R



Rudolf Debelak, **Carolin Strobl**, **Matthew D. Zeigenfuse**

Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

This book offers a clear, comprehensive introduction to the Rasch model along with practical examples in the free, open-source software R. It is accessible for readers without a background in psychometrics or statistics, while also providing detailed explanations of the relevant mathematical and statistical concepts for readers who want to gain a deeper understanding. Its worked examples in R demonstrate how to apply the methods to real-world examples and how to interpret the resulting output.

Chapman & Hall

June 2022 : 322pp

Pb: 978-1-138-71046-7 : **£60.99**

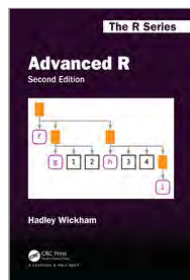
Hb: 978-1-032-26558-2 : **£170**

eBook: 978-1-315-20062-0

* For full contents and more information, visit: www.routledge.com/9781138710467

2ND EDITION

Advanced R, Second Edition



Hadley Wickham

Series: Chapman & Hall/CRC The R Series

Advanced R presents useful tools and techniques for attacking many types of R programming problems, helping you avoid mistakes and dead ends. With more than ten years of experience programming in R, the author illustrates the elegance, beauty, and flexibility at the heart of R. The book develops the necessary skills to produce quality code that can be used in a variety of circumstances. You will learn: The fundamentals of R, including standard data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast, memory-efficient code

Chapman & Hall

May 2019 : 604pp

Pb: 978-0-815-38457-1 : **£54.99**

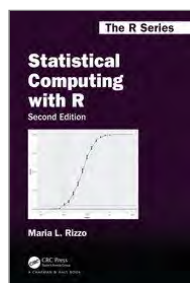
Hb: 978-0-367-25537-4 : **£190**

eBook: 978-1-351-20131-5

* For full contents and more information, visit: www.routledge.com/9780815384571

2ND EDITION

Statistical Computing with R, Second Edition



Maria L. Rizzo Bowling Green State University, Ohio, USA

Series: Chapman & Hall/CRC The R Series

Computational statistics and statistical computing are two areas that employ computational, graphical, and numerical approaches to solve statistical problems, making the versatile R language an ideal computing environment for these fields. This second edition continues to encompass the traditional core material of computational statistics, with an emphasis on using the R language via an examples-based approach. It includes R code for all examples and R notes to help explain the R programming concepts. This edition also features a new chapter on nonparametric regression and smoothing.

Chapman & Hall

March 2019 : 490pp

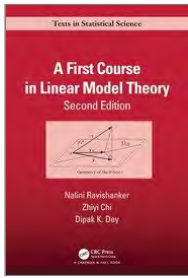
Hb: 978-1-466-55332-3 : **£76.99**

eBook: 978-0-429-19276-0

* For full contents and more information, visit: www.routledge.com/9781466553323

2ND EDITION

A First Course in Linear Model Theory



Nalini Ravishanker University of Connecticut, Storrs, USA, **Zhiyi Chi** University of Connecticut, **Dipak K. Dey** University of Connecticut, Storrs, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

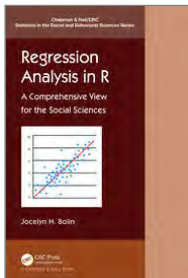
This book represents an entirely fresh approach for introducing to students the mathematical and statistical concepts and tools that form the backbone for the study of the theory and applications of linear models, both univariate and multivariate. This second edition features several new topics that are extremely relevant to the current research in statistical methodology. Revised or expanded topics include analysis of covariance, Bayesian linear and generalized linear model, nonlinear regression, ridge regression, resistant and robust regression, generalized linear models, model selection, multiple comparisons, hierarchical linear models, random effects and variance components.

Chapman & Hall
October 2021 : 530pp
Hb: 978-1-439-85805-9 : **£94.99**
eBook: 978-1-315-15665-1

* For full contents and more information, visit: www.routledge.com/9781439858059

Regression Analysis in R

A Comprehensive View for the Social Sciences



Jocelyn E. Bolin Ball State University, Department of Educational Psychology

Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

Regression Analysis in R: A Comprehensive View for the Social Sciences covers the basic applications of multiple linear regression all the way through to more complex regression applications and extensions. Written for graduate level students of social science disciplines this book walks readers through bivariate correlation giving them a solid framework from which to expand into more complicated regression models. Concepts are demonstrated using R software and real data examples.

Chapman & Hall
July 2022 : 192pp
Pb: 978-0-367-27258-6 : **£66.99**
Hb: 978-1-032-25775-4 : **£170**
eBook: 978-0-429-29584-3

* For full contents and more information, visit: www.routledge.com/9780367272586

Advanced Regression Models with SAS and R



Olga Korosteleva

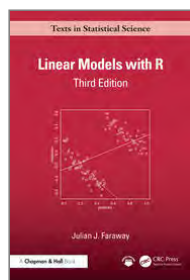
The material covered by this book consists of a collection of regression models beyond linear regression. The linear regression model is presented in the first chapter in order to refresh the reader's memory, emphasize certain points, and set the notation. The subsequent chapters talk about models for categorical data, count data, proportions, longitudinal data, hierarchical data, and others.

Chapman & Hall
December 2020 : 324pp
Pb: 978-0-367-73242-4 : **£51.99**
Hb: 978-1-138-04901-7 : **£96.99**
eBook: 978-1-315-16982-8

* For full contents and more information, visit: www.routledge.com/9780367732424

3RD EDITION

Linear Models with R



Julian J. Faraway University of Bath, UK

Series: *Chapman & Hall/CRC Texts in Statistical Science*

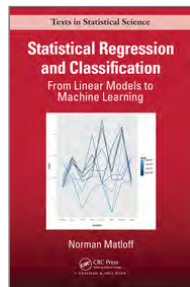
Linear Models with R, Third Edition explains how to use linear models in physical science, engineering, social science, and business applications. The book incorporates several improvements that reflect how the world of R has expanded since the publication of the second edition. Like its widely praised, best-selling predecessor, this edition combines statistics and R to seamlessly give a coherent exposition of the practice of linear modeling. The text offers up-to-date insight on essential data analysis topics, from estimation, inference, and prediction to missing data, factorial models, and block designs. Numerous examples illustrate how to apply the different methods using R.

Chapman & Hall
March 2025 : 388pp
Hb: 978-1-032-58398-3 : **£83.99**
eBook: 978-1-003-44997-3

* For full contents and more information, visit: www.routledge.com/9781032583983

Statistical Regression and Classification

From Linear Models to Machine Learning



Norman Matloff

Series: *Chapman & Hall/CRC Texts in Statistical Science*

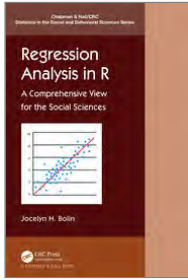
This text provides a modern introduction to regression and classification with an emphasis on big data and R. Each chapter is partitioned into a main body section and an "extras" section. The main body uses math stat very sparingly and always in the context of something concrete, which means that readers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

Chapman & Hall
August 2017 : 532pp
Pb: 978-1-498-71091-6 : **£76.99**
Hb: 978-1-138-06646-5 : **£170**
eBook: 978-1-315-11958-8

* For full contents and more information, visit: www.routledge.com/9781498710916

Regression Analysis in R

A Comprehensive View for the Social Sciences



Jocelyn E. Bolin Ball State University, Department of Educational Psychology

Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

Regression Analysis in R: A Comprehensive View for the Social Sciences covers the basic applications of multiple linear regression all the way through to more complex regression applications and extensions. Written for graduate level students of social science disciplines this book walks readers through bivariate correlation giving them a solid framework from which to expand into more complicated regression models. Concepts are demonstrated using R software and real data examples.

Chapman & Hall
July 2022 : 192pp

Pb: 978-0-367-27258-6 : **£66.99**

Hb: 978-1-032-25775-4 : **£170**

eBook: 978-0-429-29584-3

* For full contents and more information, visit: www.routledge.com/9780367272586

Scientific Research and Methodology

An Introduction to Quantitative Research and Statistics



Peter K. Dunn Associate Professor, Uni of Sushine Coast.

This textbook is designed for teaching quantitative research in the scientific, health and engineering disciplines at first-year undergraduate level, with an emphasis on statistics. It covers the research process, including asking research questions, research design, data collection, summarising data, analysis and communication. Statistical topics include numerical summary methods (such as means, odds ratios and identification of outliers), graphing (such as histograms, case-profile plots and scatterplots), confidence intervals and hypothesis testing. Almost every dataset used is a real dataset, and is available online or in an associated R package SRMData.

Chapman & Hall

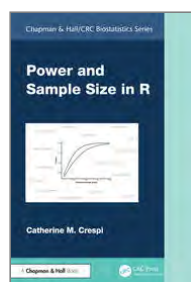
August 2025 : 552pp

Hb: 978-1-032-49672-6 : **£94.99**

eBook: 978-1-003-39493-8

* For full contents and more information, visit: www.routledge.com/9781032496726

Power and Sample Size in R



Catherine M. Crespi

Series: Chapman & Hall/CRC Biostatistics Series

Power and Sample Size in R guides the reader through power and sample size calculations for a wide variety of study outcomes and designs and illustrates their implementation in R software. It is designed to be used as a learning tool for students as well as a resource for experienced statisticians and investigators. The book demonstrates calculations in R, and only a basic proficiency in R is assumed. By emphasizing statistical thinking about the factors that influence power for different study designs and outcomes as well as providing R code, this book equips the reader with the knowledge and tools to perform their own calculations with confidence.

Chapman & Hall
February 2025 : 370pp
Hb: 978-1-138-59162-2 : **£78.99**
eBook: 978-0-429-48878-8

* For full contents and more information, visit: www.routledge.com/9781138591622

SAS Programming for Elementary Statistics

Getting Started



Carla L. Goad Oklahoma State University, Department of Statistics

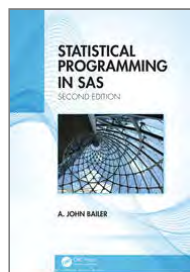
This textbook provides an introduction to SAS Programming for elementary statistical methods. It does not require any previous experience of SAS, but the reader is assumed to have a basic understanding of statistics. It covers the basics of programming, including creation of datasets in SAS, debugging a program, and the overall construction of a SAS program. It covers all DATA Step operations, t-tests, confidence intervals, simple linear regression, and ANOVA. The book is full of examples and computer-based exercises, and has been developed from the vast experience of the author teaching from the material over many years.

Chapman & Hall
December 2020 : 398pp
Pb: 978-1-138-58902-5 : **£66.99**
Hb: 978-1-138-58909-4 : **£175**
eBook: 978-0-429-49190-0

* For full contents and more information, visit: www.routledge.com/9781138589025

2ND EDITION

Statistical Programming in SAS



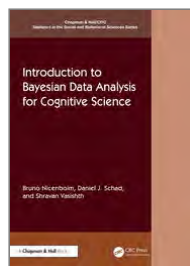
A. John Bailer

The book focuses on good programming and coding practice for producing data sets for later analyses, using simulation studies to explore statistical concepts and employing computationally intensive methods. Many of the topics included in the SAS Base Certification exam are included in this book along with topics such as SQL and Macros that are extensively considered in the SAS Advanced Certification Exam. Topics beyond either of these exams are also discussed such as high-quality graphical displays and text processing.

Chapman & Hall
December 2019 : 378pp
Pb: 978-0-367-35797-9 : **£80.99**
Hb: 978-0-367-35800-6 : **£195**
eBook: 978-0-429-34184-7

* For full contents and more information, visit: www.routledge.com/9780367357979

Introduction to Bayesian Data Analysis for Cognitive Science



Bruno Nicenboim Tilburg University, Netherlands,
Daniel J. Schad Health & Medical University, Germany,
Shravan Vasishth University of Potsdam, Germany

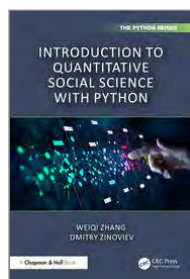
Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

This book introduces Bayesian data analysis and Bayesian cognitive modeling to students and researchers in cognitive science (e.g., linguistics, psycholinguistics, psychology, computer science), with a particular focus on modeling data from planned experiments. The book relies on the probabilistic programming language Stan and the R package brms, which is a front-end to Stan. The book only assumes that the reader is familiar with the statistical programming language R, and has basic high school exposure to pre-calculus mathematics; some of the important mathematical constructs needed for the book are introduced in the first chapter.

Chapman & Hall
 August 2025 : 634pp
 Pb: 978-0-367-35933-1 : **£60.99**
 Hb: 978-0-367-35851-8 : **£160**
 eBook: 978-0-429-34264-6

* For full contents and more information, visit: www.routledge.com/9780367359331

Introduction to Quantitative Social Science with Python



WeiQi Zhang, **Dmitry Zinoviev**

Series: Chapman & Hall/CRC The Python Series

Departing from traditional methodologies of teaching data analysis, this book presents a dual-track learning experience, with both Executive and Technical Tracks, designed to accommodate readers with various learning goals or skill levels. Through integrated content, readers can explore fundamental concepts in data analysis while gaining hands-on experience with Python programming, ensuring a holistic understanding of theory and practical application in Python. This book offers a comprehensive and accessible guide to mastering the art and science of data analysis in social science research.

Chapman & Hall
 November 2024 : 356pp
 Pb: 978-1-032-35659-4 : **£52.99**
 Hb: 978-1-032-35460-6 : **£150**
 eBook: 978-1-003-32789-9

* For full contents and more information, visit: www.routledge.com/9781032356594

2ND EDITION

Modern Statistics for the Social and Behavioral Sciences

A Practical Introduction, Second Edition



Rand Wilcox

Designed for a two-semester, introductory course for graduate students in the social sciences, this text illustrates how to use R to apply both standard and modern methods to correct known problems with classic techniques. Numerous illustrations provide a conceptual basis for understanding why practical problems with classic methods were missed for so many years, and why modern techniques have practical value. The second edition will add coverage of advances in regression, such as new insights regarding smoothers. New results on comparing medians would be included and quite a few improvements relevant to ANCOVA will be added. In addition, new R functions will be described.

Chapman & Hall
 December 2020 : 754pp
 Pb: 978-0-367-73596-8 : **£51.99**
 Hb: 978-1-498-79678-1 : **£130**
 eBook: 978-1-315-15448-0

* For full contents and more information, visit: www.routledge.com/9780367735968

Visualization for Social Data Science



Roger Beecham University of Leeds, Yorkshire, UK

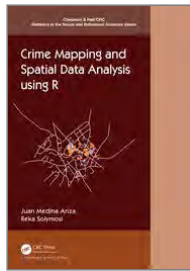
Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

The book provides end-to-end skills in visual data analysis. It demonstrates how data graphics and modern statistics can be used in tandem to process, explore, model and communicate data-driven social science. It is packed with detailed data analysis examples, pushing you to do visual data analysis. As well as introducing, and demonstrating with code, a wide range of data visualizations for exploring patterns in data, the book shows how models can be integrated with graphics to emphasise important structure and de-emphasise spurious structure and the role of data graphics in scientific communication -- in building trust and integrity.

Chapman & Hall
 September 2025 : 218pp
 Pb: 978-1-032-25971-0 : **£55.99**
 Hb: 978-1-032-27437-9 : **£150**
 eBook: 978-1-003-29276-0

* For full contents and more information, visit: www.routledge.com/9781032259710

Crime Mapping and Spatial Data Analysis using R



Juan Medina Ariza, Reka Solymosi

Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

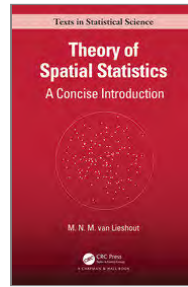
Practical introduction to crime mapping and spatial data analysis using R and R Studio. Crime mapping and analysis of crime problems using spatially explicit data has become a central feature of law enforcement agencies across the world. Criminology degrees have begun to adapt their curriculums to foster the skills required for these jobs.

Chapman & Hall
April 2023 : 450pp
Hb: 978-0-367-72469-6 : **£80.99**
eBook: 978-1-003-15491-4

* For full contents and more information, visit: www.routledge.com/9780367724696

Theory of Spatial Statistics

A Concise Introduction



M.N.M. van Lieshout

Series: Chapman & Hall/CRC Texts in Statistical Science

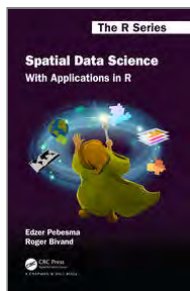
Spatial data are collected in various ways, for example, weather maps, soil samples, incident patterns, microscopical slices, satellite, radar, or X-ray images. The statistical analysis of spatial data is treated as a separate topic, as it is different from classical statistical data in a number of ways. This book presents a concise introduction to the theory underlying the analysis of the main types of spatial data. It includes examples to illustrate the topics, including R code for their implementation, as well as exercises to support course teaching and self-study.

Chapman & Hall
March 2019 : 182pp
Pb: 978-0-367-14639-9 : **£66.99**
Hb: 978-0-367-14642-9 : **£175**
eBook: 978-0-429-05286-6

* For full contents and more information, visit: www.routledge.com/9780367146399

Spatial Data Science

With Applications in R



Edzer Pebesma Insititte for Geoinformatics, University of Muenster, Germany, **Roger Bivand**

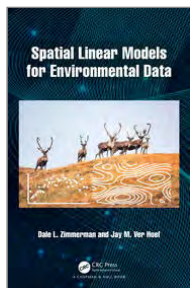
Series: Chapman & Hall/CRC The R Series

This is a book for data scientists with intermediate R knowledge. The book gives a detailed explanation of the core spatial software packages for R: sf for simple feature access, and stars for raster and vector data cubes – array data with spatial and temporal dimensions. It also shows how geometrical operations change when going from a flat space to the surface of a sphere. This is what sf and stars use when coordinates are not projected. Separate chapters detail a variety of plotting approaches for spatial maps using R, and different ways of handling very large vector or raster (imagery) datasets, locally, in databases, or in the cloud.

Chapman & Hall
May 2023 : 314pp
Hb: 978-1-138-31118-3 : **£83.99**
eBook: 978-0-429-45901-6

* For full contents and more information, visit: www.routledge.com/9781138311183

Spatial Linear Models for Environmental Data



Dale L. Zimmerman Dept. of Statistics, University of Iowa, **Jay M. Ver Hoef**

Series: Chapman & Hall/CRC Applied Environmental Statistics

Many applied researchers equate spatial statistics with prediction or mapping, but this book naturally extends linear models, which includes regression and ANOVA as pillars of applied statistics, to achieve a more comprehensive treatment of the analysis of spatially autocorrelated data. Spatial Linear Models for Environmental Data, aimed at students and professionals with a master's level training in statistics, presents a unique, applied, and thorough treatment of spatial linear models within a statistics framework. By mimicking their examples and R code, readers will be able to fit spatial linear models to their data and draw proper scientific conclusions.

Chapman & Hall
April 2024 : 416pp
Hb: 978-0-367-18334-9 : **£86.99**
eBook: 978-0-429-06087-8

* For full contents and more information, visit: www.routledge.com/9780367183349

Computer Intensive Methods in Statistics



Silvelyn Zwanzig Uppsala University, Sweden, **Behrang Mahjani** Uppsala University, Sweden

This textbook gives an overview of statistical methods that have been developed during the last years due to increasing computer use, including random number generators, Monte Carlo methods, Markov Chain Monte Carlo (MCMC) methods, Bootstrap, EM algorithms, SIMEX, variable selection, density estimators, kernel estimators, orthogonal and local polynomial estimators, wavelet estimators, splines, and model assessment. Computer Intensive Methods in Statistics is written for students at graduate level, but can also be used by practitioners.

Chapman & Hall

December 2019 : 226pp

Pb: 978-0-367-19423-9 : **£60.99**

Hb: 978-0-367-19425-3 : **£170**

eBook: 978-0-429-20232-2

* For full contents and more information, visit: www.routledge.com/9780367194239

2ND EDITION

Statistical Computing with R, Second Edition



Maria L. Rizzo Bowling Green State University, Ohio, USA

Series: Chapman & Hall/CRC The R Series

Computational statistics and statistical computing are two areas that employ computational, graphical, and numerical approaches to solve statistical problems, making the versatile R language an ideal computing environment for these fields. This second edition continues to encompass the traditional core material of computational statistics, with an emphasis on using the R language via an examples-based approach. It includes R code for all examples and R notes to help explain the R programming concepts. This edition also features a new chapter on nonparametric regression and smoothing.

Chapman & Hall

March 2019 : 490pp

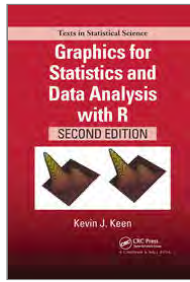
Hb: 978-1-466-55332-3 : **£76.99**

eBook: 978-0-429-19276-0

* For full contents and more information, visit: www.routledge.com/9781466553323

2ND EDITION

Graphics for Statistics and Data Analysis with R

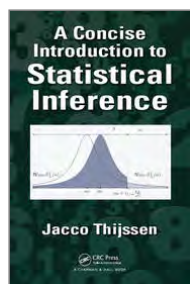
**Kevin J. Keen**

The book presents the basic principles of sound graphical design and applies these principles to engaging examples using the graphical functions available in R. It offers a wide variety of graphical displays for the presentation of data, including modern tools for data visualization and representation. The second edition will add examples with the R package ggplot2 in addition to examples with the base and lattice packages in the first edition.

Chapman & Hall
December 2020 : 612pp
Pb: 978-0-367-73444-2 : **£51.99**
Hb: 978-1-498-77983-8 : **£89.99**
eBook: 978-0-429-03106-9

* For full contents and more information, visit: www.routledge.com/9780367734442

A Concise Introduction to Statistical Inference



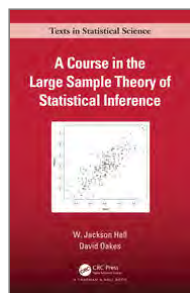
Jacco Thijssen The University of York, UK

This short book introduces the main ideas of statistical inference in a way that is both user friendly and mathematically sound. Particular emphasis is placed on the common foundation of many models used in practice. In addition, the book focuses on the formulation of appropriate statistical models to study problems in business, economics, and the social sciences, as well as on how to interpret the results from statistical analyses. The book will be useful to students who are interested in rigorous applications of statistics to problems in business, economics and the social sciences, as well as students who have studied statistics in the past, but need a more solid grounding in statistical techniques to further their careers.

Chapman & Hall
December 2016 : 230pp
Pb: 978-1-498-75577-1 : **£66.99**
Hb: 978-1-138-46967-9 : **£205**
eBook: 978-1-315-38023-0

* For full contents and more information, visit: www.routledge.com/9781498755771

A Course in the Large Sample Theory of Statistical Inference



W. Jackson Hall, David Oakes University of Rochester, Rochester, NY, USA

Series: *Chapman & Hall/CRC Texts in Statistical Science*

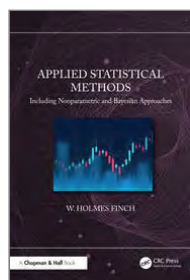
This book provides an accessible but rigorous introduction to asymptotic theory in parametric statistical models. Asymptotic results for estimation and testing are derived using the "moving alternative" formulation due to R. A. Fisher and L. Le Cam. Later chapters include discussions of linear rank statistics and of chi-squared tests for contingency table analysis, including situations where parameters are estimated from the complete ungrouped data. The book is based on lecture notes prepared by the first author, subsequently edited, expanded and updated by the second author. Familiarity with undergraduate probability and statistics is necessary.

Chapman & Hall
December 2023 : 320pp
Hb: 978-1-498-72606-1 : **£91.99**
eBook: 978-0-429-16008-0

* For full contents and more information, visit: www.routledge.com/9781498726061

Applied Statistical Methods

Including Nonparametric and Bayesian Approaches



W. Holmes Finch Ball State University, USA

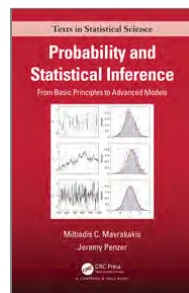
This book is designed to provide students, teachers, and researchers with a text that includes a full range of statistical methods available to address commonly encountered research problems. This book addresses this issue by presenting parametric, nonparametric, robust, and Bayesian techniques that are appropriate for research scenarios often encountered in practice and typically found in statistics courses. For each of these major topics, the standard parametric approach is presented, along with the assumptions underlying it and the methods used to assess the viability of these assumptions.

Chapman & Hall
June 2025 : 374pp
Pb: 978-1-032-45934-9 : **£62.99**
Hb: 978-1-032-45757-4 : **£160**
eBook: 978-1-003-37932-4

* For full contents and more information, visit: www.routledge.com/9781032459349

Probability and Statistical Inference

From Basic Principles to Advanced Models



Miltiadis C. Mavrakakis Imperial College London, United Kingdom, **Jeremy Penzer** London School of Economics, UK

Series: *Chapman & Hall/CRC Texts in Statistical Science*

This book covers aspects of probability, distribution theory, and inference that are fundamental to a proper understanding of data analysis and statistical modelling. It presents these topics in an accessible manner without sacrificing mathematical rigour, bridging the gap between the many excellent introductory books and the more advanced, graduate-level texts. The book introduces and explores techniques that are relevant to modern practitioners, while being respectful to the history of statistical inference. It seeks to provide a thorough grounding in both the theory and application of statistics, with even the more abstract parts placed in the context of a practical setting.

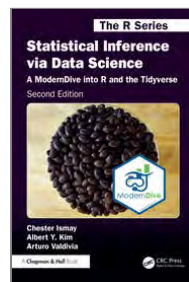
Chapman & Hall
September 2022 : 444pp
Pb: 978-0-367-74912-5 : **£51.99**
Hb: 978-1-584-88939-7 : **£140**
eBook: 978-1-315-36663-0

* For full contents and more information, visit: www.routledge.com/9780367749125

2ND EDITION

Statistical Inference via Data Science

A ModernDive into R and the Tidyverse



Chester Ismay DataCamp, **Albert Y. Kim**, **Arturo Valdivia**

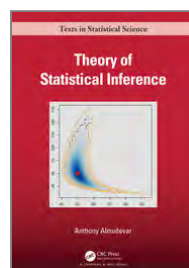
Series: *Chapman & Hall/CRC The R Series*

Offers a comprehensive guide to learning statistical inference with data science tools widely used in industry, academia, and government. Ideal for those new to statistics or looking to deepen their knowledge, this edition provides a clear entry point into data science and modern statistical methods.

Chapman & Hall
May 2025 : 490pp
Pb: 978-1-032-70837-9 : **£68.99**
Hb: 978-1-032-72451-5 : **£170**
eBook: 978-1-032-72454-6

* For full contents and more information, visit: www.routledge.com/9781032708379

Theory of Statistical Inference



Anthony Almudevar University of Rochester, Rochester, NY, USA

Series: *Chapman & Hall/CRC Texts in Statistical Science*

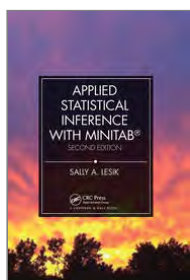
Theory of Statistical Inference is concerned with the development of a type of optimization theory which can be used to inform the choice of statistical methodology. Of course, this would be pointless without reference to such methods. We are simply noting that they are included in support of the larger goal. This book distinguishes itself from other graduate textbooks because it is written from the point of view that some degree of understanding of measure theory, as well as other branches of mathematics, which include topology, group theory and complex analysis, should be a part of the canon of statistical inference.

Chapman & Hall
May 2024 : 470pp
Pb: 978-0-367-50280-5 : **£47.99**
Hb: 978-0-367-48875-8 : **£125**
eBook: 978-1-003-04934-0

* For full contents and more information, visit: www.routledge.com/9780367502805

2ND EDITION

Applied Statistical Inference with MINITAB®, Second Edition

**Sally A. Lesik**

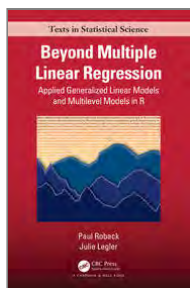
This book covers material that is typically presented in an intermediate course in statistics at the undergraduate level and a first course in applied statistics at the graduate level. Topics include basic statistical inference, regression, and ANOVA. More advanced topics include non-parametric statistics, logistic regression, and goodness-of-fit tests. One key feature of this book is that it is written to provide readers with the foundation necessary to study more advanced topics in statistics.

Chapman & Hall
March 2021 : 496pp
Pb: 978-0-367-78057-9 : **£51.99**
Hb: 978-1-498-77998-2 : **£140**
eBook: 978-0-429-44495-1

* For full contents and more information, visit: www.routledge.com/9780367780579

Beyond Multiple Linear Regression

Applied Generalized Linear Models And Multilevel Models in R



Paul Roback St. Olaf College, Northfield, Minnesota, USA,
Julie Legler

Series: Chapman & Hall/CRC Texts in Statistical Science

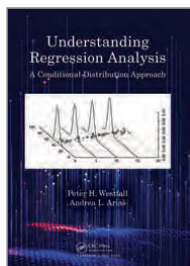
Designed for advanced undergraduate or non-major graduate students in Advanced Statistical Modeling or Regression II as well as courses on Generalized Linear Models, Longitudinal Data Analysis, Correlated Data, or Multilevel Models, this text offers a unified discussion of generalized linear models and correlated data methods. It explores case studies involving real data and details material on R at the end of each chapter. A solutions manual is available for qualified instructors.

Chapman & Hall
May 2024 : 436pp
Pb: 978-0-367-68044-2 : **£47.99**
Hb: 978-1-439-88538-3 : **£94.99**
eBook: 978-0-429-06666-5

* For full contents and more information, visit: www.routledge.com/9780367680442

Understanding Regression Analysis

A Conditional Distribution Approach



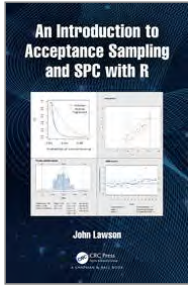
Peter H. Westfall Texas Tech University, Lubbock, USA,
Andrea L. Arias

This book unifies diverse regression applications including the classical model, ANOVA models, generalized models including Poisson, Negative binomial, logistic, and survival, neural networks and decision trees under a common umbrella; namely, the conditional distribution model. It explains why the conditional distribution model is the correct model, also explains why the assumptions of the classical regression model are wrong. This one takes a realistic approach from the outset that all models are just approximations. The emphasis is to model Nature's processes realistically, rather than to assume that Nature works in particular, constrained ways.

Chapman & Hall
May 2022 : 514pp
Pb: 978-0-367-49351-6 : **£45.99**
Hb: 978-0-367-45852-2 : **£140**
eBook: 978-1-003-02576-4

* For full contents and more information, visit: www.routledge.com/9780367493516

An Introduction to Acceptance Sampling and SPC with R



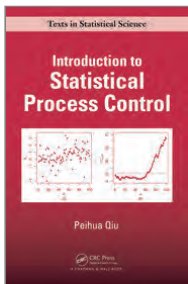
John Lawson Brigham Young University, USA

In the modern, world sampling plans and the statistical calculations used in statistical quality control are done with the help of computers. To get more hands on experience in creating acceptance sampling plans and control charts necessarily involves the use of software. In industry, commercial software is often used. In this book we will focus on several R packages that can duplicate and in some cases exceed the functionality of these commercial programs. In addition to demonstrating how to use R for acceptance sampling and control charts, this book will focus on how the use of these specific tools can lead to quality improvements both within a company and within their supplier companies.

Chapman & Hall
February 2021 : 298pp
Pb: 978-0-367-55576-4 : **£55.99**
Hb: 978-0-367-56995-2 : **£155**
eBook: 978-1-003-10027-0

* For full contents and more information, visit: www.routledge.com/9780367555764

Introduction to Statistical Process Control



Peihua Qiu University of Florida, Gainesville, USA

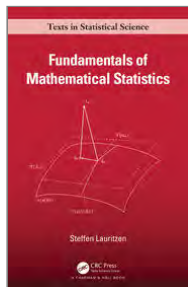
Series: Chapman & Hall/CRC Texts in Statistical Science

A major tool for quality control and management, statistical process control (SPC) monitors sequential processes, such as production lines and Internet traffic, to ensure that they work stably and satisfactorily. Along with covering traditional methods, this book describes many recent SPC methods that improve upon the more established techniques. The author—a leading researcher on SPC—shows how these methods can handle new applications. Pseudo codes are presented for important methods and all R functions and datasets are available on the author's website.

Chapman & Hall
October 2013 : 520pp
Hb: 978-1-439-84799-2 : **£125**
eBook: 978-0-429-09077-6

* For full contents and more information, visit: www.routledge.com/9781439847992

Fundamentals of Mathematical Statistics



Steffen Lauritzen

Series: Chapman & Hall/CRC Texts in Statistical Science

This book is meant for a standard one-semester advanced undergraduate or graduate level course on Mathematical Statistics. It covers all the key topics - statistical models, linear normal models, exponential families, estimation, asymptotics of maximum likelihood, significance testing, and models for tables of counts. It assumes a good background in mathematical analysis, linear algebra, and probability, but includes an appendix with basic results from these areas. Throughout the text, there are numerous examples and graduated exercises that illustrate the topics covered, rendering the book suitable for teaching or self-study.

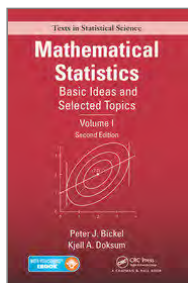
Chapman & Hall
April 2023 : 258pp
Hb: 978-1-032-22382-7 : **£86.99**
eBook: 978-1-003-27235-9

* For full contents and more information, visit: www.routledge.com/9781032223827

2ND EDITION

Mathematical Statistics

Basic Ideas and Selected Topics, Volume I, Second Edition



Peter J. Bickel University of California, Berkeley, USA,
Kjell A. Doksum University of Wisconsin, Madison, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

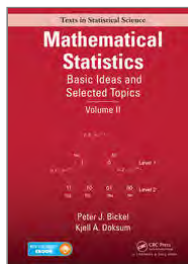
This first volume presents fundamental, classical statistical concepts at the doctorate level without using measure theory. It covers estimation, prediction, testing, confidence sets, Bayesian analysis, and the general approach of decision theory. This edition gives careful proofs of major results and explains how the theory sheds light on the properties of practical methods. The book includes in-depth examples throughout as well as many exercises at the end of each chapter.

Chapman & Hall
April 2015 : 576pp
Hb: 978-1-498-72380-0 : **£115**
eBook: 978-0-429-17478-0

* For full contents and more information, visit: www.routledge.com/9781498723800

Mathematical Statistics

Basic Ideas and Selected Topics, Volume II



Peter J. Bickel University of California, Berkeley, USA,
Kjell A. Doksum University of Wisconsin, Madison, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

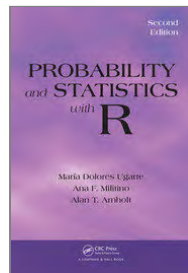
This second volume focuses on inference in non- and semiparametric models, including topics in machine learning. It not only reexamines the procedures introduced in the authors' first volume from a more sophisticated point of view but also addresses new problems originating from the analysis of estimation of functions and other complex decision procedures and large-scale data analysis. Numerous examples and problems illustrate statistical modeling and inference concepts. Measure theory is not required for understanding.

Chapman & Hall
November 2015 : 488pp
Hb: 978-1-498-72268-1 : **£96.99**
eBook: 978-0-429-15382-2

* For full contents and more information, visit: www.routledge.com/9781498722681

2ND EDITION

Probability and Statistics with R



Maria Dolores Ugarte Public University of Navarre, Pamplona, Spain, **Ana F. Militino** Public University of Navarre, Pamplona, Spain, **Alan T. Arnholt** Appalachian State University, Boone, North Carolina, USA

Since the publication of the popular first edition, the contributed R packages on CRAN have increased from around 1,000 to over 6,000. This second edition explores how some of these new packages make analysis easier and more intuitive as well as create more visually pleasing graphs. Along with adding new examples and exercises, this edition improves the existing examples, problems, concepts, data, and functions. Data sets, R functions, and more are available online.

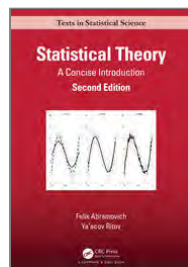
Chapman & Hall
July 2015 : 984pp
Hb: 978-1-466-50439-4 : **£115**
eBook: 978-0-429-09614-3

* For full contents and more information, visit: www.routledge.com/9781466504394

2ND EDITION

Statistical Theory

A Concise Introduction



Felix Abramovich Tel Aviv University, Israel, **Ya'acov Ritov** The Hebrew University of Jerusalem, Israel

Series: Chapman & Hall/CRC Texts in Statistical Science

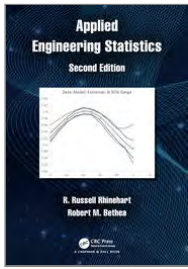
Designed for a one-semester advanced undergraduate or graduate statistical theory course, this book clearly explains the underlying ideas, mathematics, and principles of major statistical concepts, including parameter estimation, confidence intervals, hypothesis testing, asymptotic analysis, Bayesian inference, linear models, nonparametric statistics, and elements of decision theory. It introduces these topics on a clear intuitive level using illustrative examples in addition to the formal definitions, theorems, and proofs. Based on the authors' lecture notes, the book is self-contained, which maintains a proper balance between the clarity and rigor of exposition.

Chapman & Hall
December 2022 : 236pp
Hb: 978-1-032-00745-8 : **£86.99**
eBook: 978-1-003-17540-7

* For full contents and more information, visit: www.routledge.com/9781032007458

2ND EDITION

Applied Engineering Statistics



R. Russell Rhinehart, Robert M. Bethea Texas Tech University, Lubbock, USA

Thoroughly updated throughout, this second edition will continue to be about the practicable methods of statistical applications for engineers, and as well for scientists and people in business. Contrasting a mathematical and abstract orientation of many statistics texts, which expresses the science/math values of researchers, this book presents the fundamental concepts, provides supporting derivation, and focuses on the application to concrete examples and the interpretation of outcomes.

CRC Press

May 2024 : 500pp

Pb: 978-1-032-11949-6 : **£48.99**

Hb: 978-1-032-11948-9 : **£94.99**

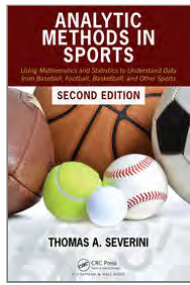
eBook: 978-1-003-22233-0

* For full contents and more information, visit: www.routledge.com/9781032119496

2ND EDITION

Analytic Methods in Sports

Using Mathematics and Statistics to Understand Data from Baseball, Football, Basketball, and Other Sports



Thomas A Severini Department of Statistics,
Northwestern University, USA

Analytic Methods in Sports: Using Mathematics and Statistics to Understand Data from Baseball, Football, Basketball, and Other Sports, 2nd Edition provides a concise yet thorough introduction to the analytic and statistical methods that are useful in studying sports. It explains how to apply the methods to sports data and interpret the results, demonstrating that the analysis of sports data is often different from standard statistical analyses. The book integrates a large number of motivating sports examples throughout and offers guidance on computation and suggestions for further reading in each chapter.

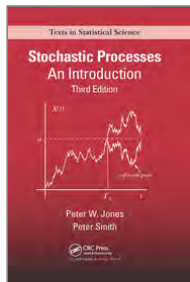
Chapman & Hall
March 2020 : 372pp
Pb: 978-0-367-46938-2 : **£66.99**
Hb: 978-0-367-25207-6 : **£175**
eBook: 978-0-367-25209-0

* For full contents and more information, visit: www.routledge.com/9780367469382

3RD EDITION

Stochastic Processes

An Introduction, Third Edition

**Peter Watts Jones , Peter Smith**

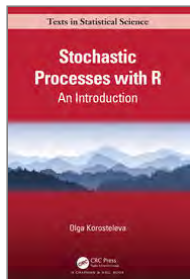
Based on a well-established and popular course taught by the authors over many years, *Stochastic Processes: An Introduction, Third Edition*, discusses the modelling and analysis of random experiments, where processes evolve over time. The text begins with a review of relevant fundamental probability. It then covers gambling problems, random walks, and Markov chains. The authors go on to discuss random processes continuous in time, including Poisson, birth and death processes, and general population models, and present an extended discussion on the analysis of associated stationary processes in queues.

Chapman & Hall
September 2020 : 272pp
Pb: 978-0-367-65760-4 : **£52.99**
Hb: 978-1-498-77811-4 : **£72.99**
eBook: 978-1-315-15657-6

* For full contents and more information, visit: www.routledge.com/9780367657604

Stochastic Processes with R

An Introduction



Olga Korosteleva California State University, Long Beach, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

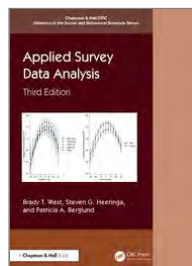
Stochastic Processes with R: An Introduction cuts through the heavy theory that is present in most courses on random processes and serves as practical guide to simulated trajectories and real-life applications for stochastic processes. The light yet detailed text provides a solid foundation that is an ideal companion for undergraduate statistics students looking to familiarise themselves with stochastic processes before going onto more advanced courses.

Chapman & Hall
May 2024 : 200pp
Pb: 978-1-032-15473-2 : **£48.99**
Hb: 978-1-032-15373-5 : **£94.99**
eBook: 978-1-003-24428-8

* For full contents and more information, visit: www.routledge.com/9781032154732

3RD EDITION

Applied Survey Data Analysis



Brady T. West University of Michigan, Ann Arbor, USA,
Steve G. Heeringa, **Patricia A. Berglund**

Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

Building on the wealth of material on practical approaches to descriptive analysis and regression modeling from the first and second editions, this third edition further expands the topics covered and presents more step-by-step examples of modern approaches to the analysis of survey data using the newest statistical software procedures.

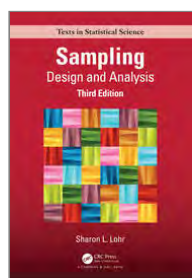
Chapman & Hall
 April 2025 : 558pp
 Hb: 978-1-032-74728-6 : **£82.99**
 eBook: 978-1-003-47209-4

* For full contents and more information, visit: www.routledge.com/9781032747286

3RD EDITION

Sampling

Design and Analysis



Sharon L. Lohr

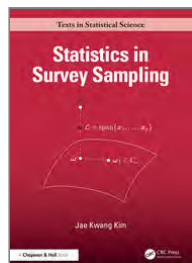
Series: Chapman & Hall/CRC Texts in Statistical Science

The third edition of this authoritative text has been thoroughly updated to incorporate recent advances in survey sampling, with a new chapter on nonprobability sampling and more than 200 new examples and exercises. Two new supplementary books, available for purchase or free download, show how to use R and SAS® software to select and analyze the samples discussed in the text.

Chapman & Hall
 November 2021 : 674pp
 Hb: 978-0-367-27950-9 : **£76.99**
 eBook: 978-0-429-29889-9

* For full contents and more information, visit: www.routledge.com/9780367279509

Statistics in Survey Sampling



Jae Kwang Kim

Series: Chapman & Hall/CRC Texts in Statistical Science

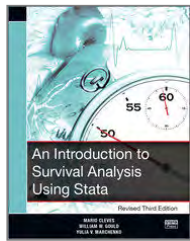
Offers a comprehensive and rigorous introduction to the principles and practices of survey sampling, bridging the gap between statistical theory and real-world data collection.

Chapman & Hall
 September 2025 : 284pp
 Hb: 978-1-032-99776-6 : **£87.99**
 eBook: 978-1-003-60614-7

* For full contents and more information, visit: www.routledge.com/9781032997766

4TH EDITION

An Introduction to Survival Analysis Using Stata, Revised Third Edition



Mario Cleves University of Arkansas for Medical Sciences, Little Rock, USA, **William Gould** StataCorp LP, College Station, Texas, USA, **Yulia Marchenko** StataCorp LP, College Station, Texas, USA

An Introduction to Survival Analysis Using Stata, Revised Third Edition is the ideal tutorial for professional data analysts who want to learn survival analysis for the first time or who are well versed in survival analysis but are not as dexterous in using Stata to analyze survival data. This text also serves as a valuable reference to those readers who already have experience using Stata's survival analysis routines. This revised third edition has been updated for Stata 14, and it includes a new section on predictive margins and marginal effects.

Stata Press

May 2016 : 428pp

Pb: 978-1-597-18174-7 : £73.99

* For full contents and more information, visit: www.routledge.com/9781597181747

4TH EDITION

Modelling Survival Data in Medical Research



David Collett NHS Blood and Transplant, UK

Series: *Chapman & Hall/CRC Texts in Statistical Science*

Fourth edition has new chapters on Bayesian survival analysis and use of the R software. Chapters extensively revised, expanded to add new material on topics that include methods for assessing predictive ability of a model, joint models for longitudinal and survival data, modern methods for the analysis of interval-censored survival data.

Chapman & Hall

May 2023 : 556pp

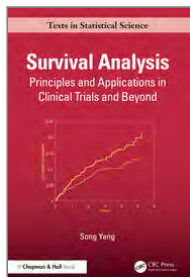
Hb: 978-1-032-25285-8 : £86.99

eBook: 978-1-003-28252-5

* For full contents and more information, visit: www.routledge.com/9781032252858

Survival Analysis

Principles and Applications in Clinical Trials and Beyond



Song Yang National Heart, Lung, and Blood Institute, National Institutes of Health, Clarksburg, MD, USA

Series: *Chapman & Hall/CRC Texts in Statistical Science*

Survival Analysis provides an up-to-date and reader-friendly account of topics progressing from the log-rank test, stratified analysis, and Cox regression to more advanced analyses. Heuristic arguments are used, leaving rigorous results to the appendices. The book dedicates separate chapters to critical topics like clinical trials basics, modeling and analysis for non-proportional hazards, testing and summarizing treatment effects, trial design and interim monitoring, and the analysis of terminal and non-terminal events. A separate chapter is also devoted to detailed martingale heuristics beyond what is typically offered in other texts.

Chapman & Hall

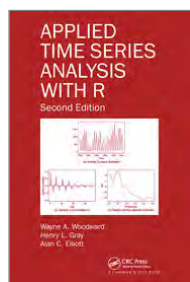
April 2026 : 534pp

Hb: 978-0-367-34186-2 : £94.99

* For full contents and more information, visit: www.routledge.com/9780367341862

2ND EDITION

Applied Time Series Analysis with R



Wayne A. Woodward, Henry L. Gray, Alan C. Elliott

Virtually any random process that develops chronologically can be viewed as a time series. This textbook presents real-world examples from the fields of engineering, economics, medicine, biology, and chemistry to promote a solid understanding of the data and associated methods. The text explores many important new methodologies that have developed in time series, such as time series with long memory, time varying frequencies (TVF), ARCH and GARCH models, multivariate time series models, wavelets, and more. The authors also provide an R-based software package available on CRAN.

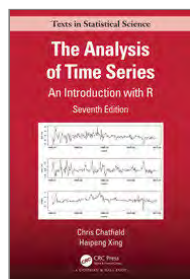
CRC Press
June 2021 : 636pp
Pb: 978-1-032-09722-0 : **£51.99**
Hb: 978-1-498-73422-6 : **£125**
eBook: 978-1-315-16114-3

* For full contents and more information, visit: www.routledge.com/9781032097220

7TH EDITION

The Analysis of Time Series

An Introduction with R



Chris Chatfield University of Bath, UK (Retired), **Haipeng Xing**

Series: Chapman & Hall/CRC Texts in Statistical Science

This new edition of this classic title, now in its seventh edition, presents a balanced and comprehensive introduction to the theory, implementation, and practice of time series analysis. The book covers a wide range of topics, including ARIMA models, forecasting methods, spectral analysis, linear systems, state-space models, the Kalman filters, nonlinear models, volatility models, and multivariate models.

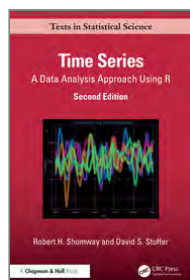
Chapman & Hall
May 2019 : 414pp
Pb: 978-1-498-79563-0 : **£80.99**
Hb: 978-1-138-06613-7 : **£185**
eBook: 978-1-351-25944-6

* For full contents and more information, visit: www.routledge.com/9781498795630

2ND EDITION

Time Series

A Data Analysis Approach Using R



Robert H. Shumway, David S. Stoffer University of Pittsburgh, Pennsylvania, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

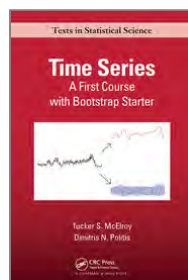
The goals of this second edition are to develop the skills and an appreciation for the richness and versatility of modern time series analysis as a tool for analyzing dependent data. An expanded feature of this edition is the inclusion of many nontrivial data sets illustrating the wealth of potential applications to problems in the biological, physical, and social sciences as well as in economics and medicine. The book can be used for a one semester/quarter introductory time series course where the prerequisites are an understanding of linear regression, basic calculus-based probability and statistics skills, and math skills at the high school level.

Chapman & Hall
February 2026 : 292pp
Pb: 978-1-041-03164-2 : **£71.99**
Hb: 978-1-041-03161-1 : **£195**
eBook: 978-1-003-62257-4

* For full contents and more information, visit: www.routledge.com/9781041031642

Time Series

A First Course with Bootstrap Starter



Tucker S. McElroy, Dimitris N. Politis

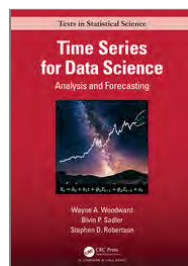
The book provides the foundation of time series methods, including linear filters and a geometric approach to prediction. The important paradigm of ARMA models is studied in-depth, as well as frequency domain methods. Entropy and other information theoretic notions are introduced, with applications to time series modeling. The second half of the book focuses on statistical inference, the fitting of time series models, as well as computational facets of forecasting. Many time series of interest are nonlinear in which case classical inference methods can fail, but bootstrap methods may come to the rescue.

Chapman & Hall
June 2021 : 586pp
Pb: 978-1-032-08330-8 : **£45.99**
Hb: 978-1-439-87651-0 : **£96.99**
eBook: 978-0-429-10955-3

* For full contents and more information, visit: www.routledge.com/9781032083308

Time Series for Data Science

Analysis and Forecasting



Wayne A. Woodward Southern Methodist University, Dallas, Texas, USA, **Bivin Philip Sadler** Technical Assistant Professor, Southern Methodist University, **Stephen Robertson**

Series: Chapman & Hall/CRC Texts in Statistical Science

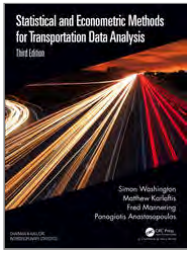
Data Science students and practitioners want to find a forecast that "works" and don't want to be constrained to a single forecasting strategy. Practical Time Series Analysis for Data Science discusses techniques of ensemble modelling for combining information from several strategies. Covering time series regression models, exponential smoothing, Holt-Winters forecasting, and Neural Networks. It places a particular emphasis on classical ARMA and ARIMA models that is often lacking from other textbooks on the subject.

Chapman & Hall
May 2024 : 528pp
Pb: 978-0-367-54389-1 : **£50.99**
Hb: 978-0-367-53794-4 : **£125**
eBook: 978-1-003-08907-0

* For full contents and more information, visit: www.routledge.com/9780367543891

3RD EDITION

Statistical and Econometric Methods for Transportation Data Analysis



Simon Washington, **Matthew G. Karlaftis** National Technical University of Athens, Greece, **Fred Mannering** University of South Florida, Tampa, FL, USA, **Panagiotis Anastasopoulos**

Series: Chapman & Hall/CRC Interdisciplinary Statistics

The complexity, diversity, and random nature of transportation problems necessitates a broad analytical toolbox. Describing tools commonly used in the field, *Statistical and Econometric Methods for Transportation Data Analysis, Third Edition* provides an understanding of a broad range of analytical tools required to solve transportation problems. It includes a wide breadth of examples and case studies covering applications in various aspects of transportation planning, engineering, safety, and economics.

Chapman & Hall

February 2020 : 496pp

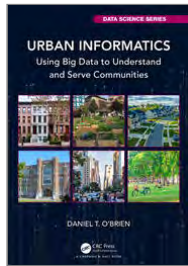
Hb: 978-0-367-19902-9 : £125

eBook: 978-0-429-24401-8

* For full contents and more information, visit: www.routledge.com/9780367199029

Urban Informatics

Using Big Data to Understand and Serve Communities



Daniel T. O'Brien School of Public Policy and Urban Affairs, Northeastern University, Boston, USA

Series: Chapman & Hall/CRC Data Science Series

Urban Informatics introduces the reader to the tools of data management, analysis, and manipulation using R statistical software. Designed for undergraduate and above level courses, this book is an ideal onramp for the study of urban informatics and how to translate novel data sets into new insights and practical tools. The book follows a unique pedagogical approach developed by the author to enable students to build skills by pursuing projects that inspire and motivate them. Each chapter has an Exploratory Data Assignment that prompts readers to practice their new skills on a data set of their choice.

Chapman & Hall

December 2022 : 340pp

Pb: 978-1-032-26459-2 : **£55.99**

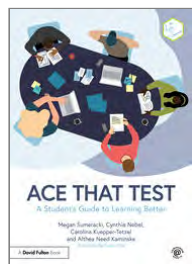
Hb: 978-1-032-27468-3 : **£150**

eBook: 978-1-003-29295-1

* For full contents and more information, visit: www.routledge.com/9781032264592

Ace That Test

A Student's Guide to Learning Better



Megan Sumeracki, Cynthia Nebel, Carolina Kuepper-Tetzl, Althea Need Kaminske

This exciting new text reveals the effective study strategies that will help you to use your time more efficiently, ace your tests, and retain information over time. In full colour and accompanied by beautifully illustrated graphics, *Ace That Test* offers evidence-based learning strategies that students can use during their study sessions, including dual coding and the power of retrieving what they know. With QR codes linking to answers to embedded questions and supplemental material, this is essential reading for college, university, and school students as well as educators teaching study skills or learning to learn courses.

Routledge

July 2023 : 146pp

Pb: 978-1-032-35585-6 : **£18.99**

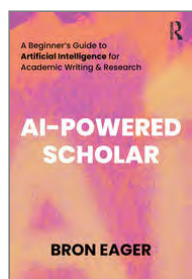
Hb: 978-1-032-35586-3 : **£145**

eBook: 978-1-003-32753-0

* For full contents and more information, visit: www.routledge.com/9781032355856

AI-Powered Scholar

A Beginner's Guide to Artificial Intelligence for Academic Writing & Research



Bron Eager University of Tasmania, Australia

This book is a practical and comprehensive guide on using AI tools to streamline and optimise the academic writing and research process. Through a series of step-by-step instructions and practical tips, this book provides readers with the knowledge and tools they need to leverage the power of AI to produce high-quality academic publications. Whether you're a university student or a tenured professor, this book is your indispensable companion to beginning your path towards becoming an AI-powered scholar.

Routledge

December 2024 : 168pp

Pb: 978-1-032-66526-9 : **£19.99**

Hb: 978-1-032-66525-2 : **£145**

eBook: 978-1-032-66527-6

* For full contents and more information, visit: www.routledge.com/9781032665269

How to Become a Successful College Student

The Tools, Habits, and Skills Needed to Foster College Readiness



Scotty Dunlap Eastern Kentucky University, USA, **Brian Dudak** Middle Tennessee State University, USA

This book is your one-stop shop for the academic tools and habits needed to make your transition from high school to college a resounding success! The shift from high school to college can be a challenge, with many students finding the skills that had previously worked so well no longer seem to be enough. *How to Become a Successful College Student* outlines the strategies you need to 'level up' your current processes in order to foster learning and retention of information in a new and rigorous environment. This guide is a must-have resource for anyone who wants to maximize their higher education experience.

Prufrock Press

November 2023 : 202pp

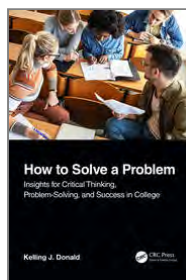
Pb: 978-1-032-52409-2 : **£14.99**

eBook: 978-1-003-41268-7

* For full contents and more information, visit: www.routledge.com/9781032524092

How to Solve A Problem

Insights for Critical Thinking, Problem-Solving, and Success in College



Kelling J. Donald University of Richmond, USA

This concise and accessible resource offers new college students, especially those in science degree programs, guidance on engaging successfully with the classroom experience and skillfully tackling technical or scientific questions. The author provides insights on identifying, from the outset, individual markers for what success in college will look like for students, how to think about the engagement with professors as a partnership, and how to function effectively in that partnership toward achieving their pre-defined goals or markers of success. It is an ideal companion for science degree prospects and first-generation students seeking insight into the college experience.

CRC Press

April 2023 : 152pp

Pb: 978-1-032-20361-4 : **£26.99**

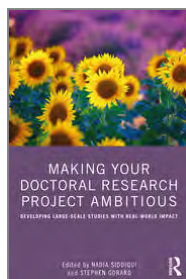
Hb: 978-1-032-20368-3 : **£66.99**

eBook: 978-1-003-26334-0

* For full contents and more information, visit: www.routledge.com/9781032203614

Making Your Doctoral Research Project Ambitious

Developing Large-Scale Studies with Real-World Impact



Edited by Nadia Siddiqui Durham University, UK, **Stephen Gorard** Durham University, UK

This edited collection provides real and outstanding examples of multiple research design methodologies which will allow doctoral researchers to develop a wide set of research skills, leading to the development of a high-quality academic thesis from which peer reviewed research papers and books can emerge. Ideal reading for doctoral students and supervisors, this book is a source of encouragement and motivation for new researchers seeking to challenge general perceptions in the social sciences that PhD or other doctoral research projects must be small-scale rather than trivial studies, but can instead produce robust findings that have real-world implications.

Routledge

April 2022 : 278pp

Pb: 978-1-032-06245-7 : **£30.99**

Hb: 978-1-032-05975-4 : **£155**

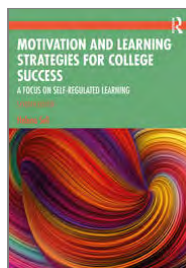
eBook: 978-1-003-20136-6

* For full contents and more information, visit: www.routledge.com/9781032062457

7TH EDITION

Motivation and Learning Strategies for College Success

A Focus on Self-Regulated Learning



Helena Seli

Now in its 7th edition, *Motivation and Learning Strategies for College Success: A Focus on Self-Regulated Learning* provides a framework organized around motivation, methods of learning, time management, control of the physical and social environment, and monitoring performance that makes it easy for students to recognize what they need to do to become successful learners. Full of rich pedagogical features and exercises, students will find Follow-Up Activities, Opportunities for Reflection, Chapter-End Reviews, Key Points, and a Glossary.

Routledge

August 2023 : 304pp

Pb: 978-1-032-47020-7 : **£54.99**

Hb: 978-1-032-47255-3 : **£155**

eBook: 978-1-003-38527-1

* For full contents and more information, visit: www.routledge.com/9781032470207

2ND EDITION

Stress, Cognition and Health

Real World Examples and Practical Applications



Tony Cassidy

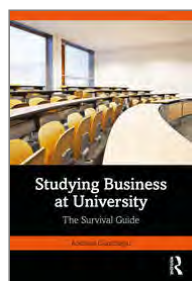
The new edition of this bestselling textbook provides a comprehensive overview of the latest research on stress and health, moving beyond the former deficit model to a resource growth model. It examines all aspects of the topic, from how the external world and the impact of technology makes demands upon individuals, through biological and psychological processes, to outcomes in terms health and wellbeing. The process is set within a dynamic, multilevel systems and developmental lifespan perspective. The book includes a history of the evolution of stress research and the biological systems and immune responses that translate external pressures into health outcomes.

Routledge
October 2022 : 148pp
Pb: 978-0-367-56418-6 : **£39.99**
Hb: 978-0-367-56634-0 : **£140**
eBook: 978-1-003-09873-7

* For full contents and more information, visit: www.routledge.com/9780367564186

Studying Business at University

The Survival Guide



Andreas Giazitzoglu

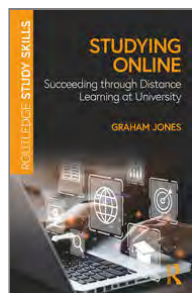
Studying Business at University provides new and prospective undergraduates with a concise and easy-to-read insight into what life is like as a business student today. Written in the style of an email dialogue between two students, it informs and reassures the new business student who is seeking advice on how to get the most out of their degree experience, and covers the whole degree from application to graduation – and beyond. This book will also be a helpful reference for lecturers who want to give their students as much support as possible as they learn to balance the demands of academia with the pressures of the real world.

Routledge
March 2025 : 134pp
Pb: 978-1-032-74042-3 : **£20.99**
Hb: 978-1-032-74034-8 : **£155**
eBook: 978-1-003-46739-7

* For full contents and more information, visit: www.routledge.com/9781032740423

Studying Online

Succeeding through Distance Learning at University



Graham Jones University of Buckingham, UK

Series: *Routledge Study Skills*

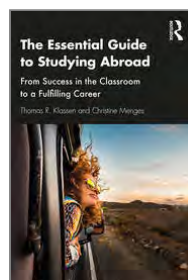
Helping you get to grips with online learning, this book contains a wealth of practical tips and strategies that will make studying online easier. Covering the advantages of online learning as well as the problems you might face, this book provides tried and tested advice to help you overcome those difficulties so that you can work to the best of your abilities. Identifying techniques designed specifically for studying online, with step-by-step instructions, as well as guidance on using online study software to the best effect, this must-have student companion provides tips and tricks to make university distance studying both effective and enjoyable.

Routledge
July 2022 : 244pp
Pb: 978-1-032-19539-1 : **£18.99**
Hb: 978-1-032-19538-4 : **£140**
eBook: 978-1-003-25969-5

* For full contents and more information, visit: www.routledge.com/9781032195391

The Essential Guide to Studying Abroad

From Success in the Classroom to a Fulfilling Career



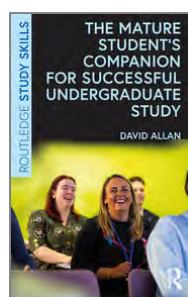
Thomas R. Klassen York University, Canada, **Christine Menges** WHU – Otto Beisheim School of Management, Germany

This book is an indispensable how-to-guide on flourishing when studying abroad, and how to use an international education to begin a fulfilling career after graduation. Written in an engaging and accessible style, using many examples, case studies and links to resources, the book reduces the stress of studying abroad. Covering all aspects of the international student experience – inside and outside the classroom – the book encourages young people to perform their very best and succeed in their new environment. International students preparing for cross cultural learning and recent graduates looking for employment will find this book both practical and inspiring.

Routledge
August 2019 : 238pp
Pb: 978-0-367-23516-1 : **£35.99**
Hb: 978-0-367-23515-4 : **£155**
eBook: 978-0-429-28011-5

* For full contents and more information, visit: www.routledge.com/9780367235161

The Mature Student's Companion for Successful Undergraduate Study



David Allan Edge Hill University, UK

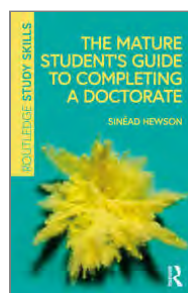
Series: *Routledge Study Skills*

A guiding resource and supportive companion, this book is designed for mature individuals intending to undertake an undergraduate degree. With a wealth of practical strategies for developing study skills, whilst, at the same time, addressing the changes that university study can bring, this key text highlights the significance of individual strengths obtained from life experiences, and demonstrates their importance in learning as a mature student. Packed full of activities to support development and case studies to exemplify a range of situations, this is a must-read for anyone looking to undertake an undergraduate degree as a mature student.

Routledge
June 2025 : 170pp
Pb: 978-1-032-61924-8 : **£17.99**
Hb: 978-1-032-61923-1 : **£155**
eBook: 978-1-032-61925-5

* For full contents and more information, visit: www.routledge.com/9781032619248

The Mature Student's Guide to Completing a Doctorate



Sinéad Hewson

Series: *Routledge Study Skills*

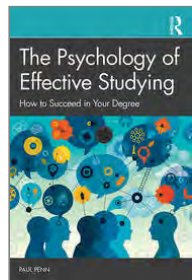
Carefully structured to make it accessible and easy to follow, this thought-provoking book encourages the reader to facilitate a dialogue across disciplines so that unconventional students are acknowledged and can discover a successful path towards admission and PhD completion. It is a must-read for advanced academic researchers, advanced post-graduate students and experienced professionals with vocational backgrounds who are seeking recognition for their knowledge and alternative pathways to contribute to the sector.

Routledge
April 2024 : 282pp
Pb: 978-1-032-53800-6 : **£17.99**
Hb: 978-1-032-53801-3 : **£145**
eBook: 978-1-003-41369-1

* For full contents and more information, visit: www.routledge.com/9781032538006

The Psychology of Effective Studying

How to Succeed in Your Degree



Paul Penn Independent Scholar, UK

This book provides a vital guide for students to key study skills that are instrumental in success at university. It uses a combination of research from cognitive psychology, humour and practical examples to convey where students often go fundamentally wrong in their studying practices and provides clear and concise advice on how they can improve. The book covers time management, academic integrity, writing essays, team work, and other key required skills for academic study. Written in a humorous and irreverent tone, and including illustrations and examples from popular culture, this is the ideal alternative and accessible study skills resource for any student at undergraduate level.

Routledge

August 2019 : 244pp

Pb: 978-1-138-57092-4 : **£23.99**

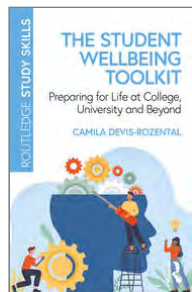
Hb: 978-1-138-57090-0 : **£140**

eBook: 978-0-203-70311-3

* For full contents and more information, visit: www.routledge.com/9781138570924

The Student Wellbeing Toolkit

Preparing for Life at College, University and Beyond



Camila Devis-Rozental Bournemouth University, UK

Series: Routledge Study Skills

The Student Wellbeing Toolkit puts wellbeing at the centre of your journey into university and beyond. By encouraging self-efficacy and a focus on the things you can control, it provides clear guidance to enhance wellbeing and opportunities for self-reflection that help develop self-awareness and prosocial skills for life. Drawing on research evidenced theories around positive psychology, theories of learning, motivation, and self-development, the book explores what, how, and why these areas are key to our wellbeing and the rationale for taking them into account to enable you to flourish and thrive at university.

Routledge

June 2023 : 286pp

Pb: 978-1-032-32966-6 : **£18.99**

Hb: 978-1-032-32965-9 : **£155**

eBook: 978-1-003-31754-8

* For full contents and more information, visit: www.routledge.com/9781032329666

3RD EDITION

Academic Writing for International Students of Business and Economics



Stephen Bailey Taught English internationally and at the Univ of Nottingham & Derby Univ & has previously published with Routledge

Now in its third edition, this key text helps international students succeed in writing essays and reports for their business and economics course. Thoroughly revised and updated, it is designed to be used by teachers in the classroom and students for self-study. New topics in this edition include writing in groups, written British and American English, and reflective writing. In addition, the new interactive website has a full set of teaching notes as well as more challenging exercises, revision material and links to other sources. Written to deal with the specific language issues faced by international students, this practical, user-friendly book is an invaluable guide.

Routledge
January 2020 : 346pp
Pb: 978-0-367-28031-4 : **£30.99**
Hb: 978-0-367-28030-7 : **£155**
eBook: 978-0-429-29927-8

* For full contents and more information, visit: www.routledge.com/9780367280314

Academic Writing for University Students



Stephen Bailey Taught English internationally and at the Univ of Nottingham & Derby Univ & has previously published with Routledge

Designed to help students succeed in writing university-level essays and reports, this book has been carefully designed for use both in the classroom and for self-study. Covering three key areas: the writing process, elements of writing and writing models, it encourages critical writing and developing a voice. Academic Writing in the University provides all of the tools necessary to produce excellent written work. With progress checks, practical examples and self-testing units, this practical, user-friendly book covers all stages of the writing process and is an invaluable guide to academic writing in the university.

Routledge
December 2021 : 324pp
Pb: 978-0-367-44539-3 : **£24.99**
Hb: 978-0-367-44538-6 : **£155**
eBook: 978-1-003-01021-0

* For full contents and more information, visit: www.routledge.com/9780367445393

6TH EDITION

Academic Writing

A Handbook for International Students



Stephen Bailey Taught English internationally and at the Univ of Nottingham & Derby Univ & has previously published with Routledge

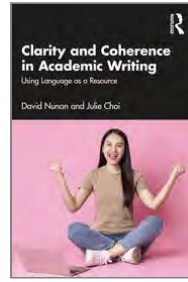
The sixth edition of this popular book has been written to help international students succeed in writing essays and reports for their English-language academic courses. Thoroughly revised and updated in a streamlined format making it even easier to use, it is designed to let readers find the support they need easily, both in the classroom and for self-study. The book consists of three parts, comprising a total of 28 units, all of which are fully cross-referenced and can be taught in conjunction with each other or used for reference. A progress check at the end of each part allows students to self-assess their learning.

Routledge
March 2025 : 320pp
Pb: 978-1-032-83417-7 : **£28.99**
Hb: 978-1-032-83418-4 : **£155**
eBook: 978-1-003-50926-4

* For full contents and more information, visit: www.routledge.com/9781032834177

Clarity and Coherence in Academic Writing

Using Language as a Resource



David Nunan, Julie Choi University of Melbourne, Australia

This book presents a lively, rich, and concise introduction to the key concepts and tools for developing clarity and coherence in academic writing. Well-known authors and linguists David Nunan and Julie Choi provide examples of the linguistic procedures that writers can draw on to enhance clarity and coherence for the reader. This resource makes complex concepts accessible to the emergent writer and illustrates how these concepts can be applied to their own writing. In-text projects and tasks invite you, the reader, to experiment with principles and ideas in developing your identity and voice as a writer.

Routledge
March 2023 : 224pp
Pb: 978-1-032-01382-4 : **£29.99**
Hb: 978-1-032-01559-0 : **£140**
eBook: 978-1-003-17909-2

* For full contents and more information, visit: www.routledge.com/9781032013824

Demystifying Academic Writing

Genres, Moves, Skills, and Strategies



Zhihui Fang

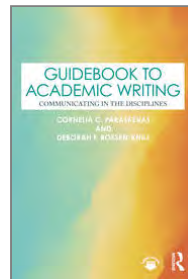
Accessible and informative, this book is designed to enhance the capacity of graduate and undergraduate students, as well as early career scholars, to write for academic purposes. Fang describes the key genres and types of academic writing, explains common rhetorical moves, offers linguistic strategies and insights to give students the skills they need for effective academic writing across genres and disciplines. Assuming no technical knowledge, this text is ideal for both non-native and native English speakers alike, and for courses in academic writing, composition, and L2 writing instruction.

Routledge
April 2021 : 286pp
Pb: 978-0-367-65354-5 : **£41.99**
Hb: 978-0-367-67508-0 : **£155**
eBook: 978-1-003-13161-8

* For full contents and more information, visit: www.routledge.com/9780367653545

Guidebook to Academic Writing

Communicating in the Disciplines



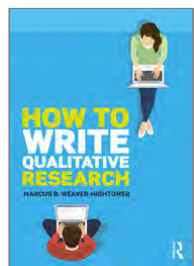
Cornelia C. Paraskevas, Deborah F. Rossen-Knill

This innovative guidebook is a concise introduction to discipline-specific academic language. Using authentic texts written by both novice and expert writers and 'translating' current, corpus-based research of academic language into a practical guide, the book gives students the tools to navigate the linguistic features of various disciplines. With exercises and additional online resources, this guidebook provides students with a range of tools they can choose from in order to create effective texts that meet discipline and reader expectations. Accessibly written, it is an essential guide for all students in humanities and sciences writing academic texts in English.

Routledge
July 2024 : 240pp
Pb: 978-1-032-48470-9 : **£39.99**
Hb: 978-1-032-48472-3 : **£155**
eBook: 978-1-003-38924-8

* For full contents and more information, visit: www.routledge.com/9781032484709

How to Write Qualitative Research



Marcus B. Weaver-Hightower University of North Dakota, USA

Qualitative research has exploded in popularity in nearly every discipline from the social sciences to health fields to business. While many qualitative textbooks explain how to conduct an interview or analyze fieldnotes, rarely do they give more than a few scant pages to the skill many find most difficult: writing. That's where *How to Write Qualitative Research* comes in. Using clear prose, helpful examples and lists, it breaks down and explains the most common writing tasks in qualitative research, and each chapter suggests step-by-step how-to approaches writers can use to tackle those tasks.

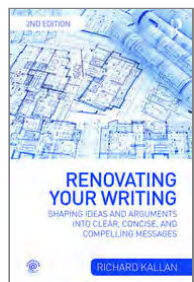
Routledge
October 2018 : 282pp
Pb: 978-1-138-06631-1 : **£45.99**
Hb: 978-1-138-06630-4 : **£155**
eBook: 978-1-315-15926-3

* For full contents and more information, visit: www.routledge.com/9781138066311

2ND EDITION

Renovating Your Writing

Shaping Ideas and Arguments into Clear, Concise, and Compelling Messages



Richard Kallan

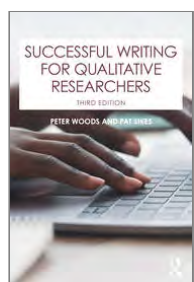
Renovating Your Writing outlines the principles of effective composition by focusing on the essential skill set and mindset every successful writer must possess. Now in its second edition, this novel text provides readers with unique strategies for crafting and revising their writing, whether for school, work, or play. The new edition emphasizes, in particular, the importance of the writer embracing a rhetorical perspective, distinguishing between formal and social media compositional styles, and appreciating the effort needed to produce clear, concise, and compelling messages.

Routledge
July 2017 : 190pp
Pb: 978-1-138-72677-2 : **£31.99**
Hb: 978-1-138-72676-5 : **£155**
eBook: 978-1-315-18660-3

* For full contents and more information, visit: www.routledge.com/9781138726772

3RD EDITION

Successful Writing for Qualitative Researchers



Peter Woods, Pat Sikes

The third edition of this text has been brought fully up to date to cover developments in funding and institutional requirements. With new material on the responsibilities of the writer, technological developments, the ability to reach wider audiences and arts-based research, this book is designed to give practical advice to aspiring and established academic writers on mind-sets, strategies, techniques and opportunities. A must-read guide for all those looking to translate their qualitative research into writing.

Routledge
March 2022 : 190pp
Pb: 978-0-367-69823-2 : **£30.99**
Hb: 978-0-367-69822-5 : **£155**
eBook: 978-1-003-14340-6

* For full contents and more information, visit: www.routledge.com/9780367698232

2ND EDITION

The Essentials of Academic Writing for International Students



Stephen Bailey Taught English internationally and at the Univ of Nottingham & Derby Univ & has previously published with Routledge

Written to help international students write essays and reports for their English-language university courses, this key title covers the essentials needed to achieve academic writing success. An easy-to-follow course that builds writing confidence and can be used both in the classroom and for self-study, this second edition has been thoroughly revised and updated to contain relevant examples, explanations and exercises. All international students wanting to maximise their academic potential will find this practical, concise and easy-to-use book an invaluable guide to writing in English for their degree courses.

Routledge
March 2024 : 252pp
Pb: 978-1-032-72170-5 : **£23.99**
Hb: 978-1-032-72173-6 : **£155**
eBook: 978-1-032-72172-9

* For full contents and more information, visit: www.routledge.com/9781032721705

5TH EDITION

Using Sources Effectively

Strengthening Your Writing and Avoiding Plagiarism



Robert A. Harris

Now in its fifth, expanded edition, *Using Sources Effectively*, Fifth Edition targets the two most prominent problems in current research-paper writing: the increase in unintentional plagiarism and the ineffective use of research source material. Designed as a supplementary textbook for both undergraduate and graduate courses, this book will help every student who uses research in writing. Included in this edition is coverage of research strategies and source selection (Chapter 2), a chapter on quoting sources effectively (Chapter 4), and a chapter on sentence patterns (Chapter 10). APA and MLA citation styles have been updated throughout the text.

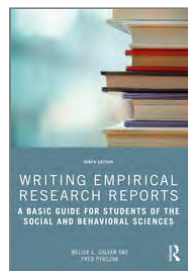
Routledge
January 2017 : 210pp
Pb: 978-1-138-28968-0 : **£60.99**
Hb: 978-1-138-28966-6 : **£185**
eBook: 978-1-315-26706-7

* For full contents and more information, visit: www.routledge.com/9781138289680

9TH EDITION

Writing Empirical Research Reports

A Basic Guide for Students of the Social and Behavioral Sciences



Melisa C. Galvan California State University, Northridge, USA

Writing Empirical Research Reports: A Basic Guide for Students of the Social and Behavioral Sciences, Ninth Edition, offers clear and practical guidance on how to write research proposals, reports, theses, and dissertations. Accompanied by online resources for students and instructors, this book is ideal for use in research methods courses, thesis/dissertation preparation courses, research seminars where writing a research report is a culminating activity, and any graduate-level seminar in which the instructor covers the vital components necessary to prepare a research manuscript for submission for publication.

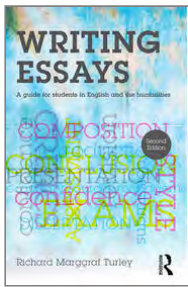
Routledge
October 2023 : 196pp
Pb: 978-1-032-13680-6 : **£59.99**
Hb: 978-1-032-13678-3 : **£145**
eBook: 978-1-003-23041-0

* For full contents and more information, visit: www.routledge.com/9781032136806

2ND EDITION

Writing Essays

A guide for students in English and the humanities



Richard Marggraf Turley Aberystwyth University, Wales.

Essays are a major form of assessment in higher education today and this is a fact that causes some writers a great deal of anxiety. Fortunately, essay writing is a skill that can be learned, like any other. Writing Essays demystifies the entire process of essay writing and reveals the tricks of the trade, making your student life easier. You'll learn how to impress tutors by discovering exactly what markers look for when they read your work. Using practical examples selected from real student assignments and tutor feedback, this book covers every aspect of composition, from introductions and conclusions, down to presentation and submission.

Routledge
November 2015 : 158pp
Pb: 978-1-138-91669-2 : **£23.99**
Hb: 978-1-138-91668-5 : **£155**
eBook: 978-1-315-68944-9

* For full contents and more information, visit: www.routledge.com/9781138916692

8TH EDITION

Writing Literature Reviews

A Guide for Students of the Social and Behavioral Sciences



Melisa C. Galvan California State University, Northridge, USA, **Jose L. Galvan** Professor Emeritus, California State University, Los Angeles.

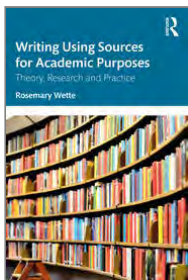
Writing Literature Reviews provides students with practical guidelines for the complex process of writing literature reviews for course projects, theses or dissertations, and research manuscripts for publication. It is ideal for use in research methods courses, thesis/dissertation preparation courses, research seminars where a literature review is expected as a culminating activity, or any course in which the instructor needs to cover the vital components necessary to prepare a literature review for a variety of audiences. The book is supported by online materials including self-test quizzes for students, and lecture slides for instructors.

Routledge
November 2024 : 288pp
Pb: 978-1-032-32868-3 : **£66.99**
Hb: 978-1-032-32862-1 : **£190**
eBook: 978-1-003-31709-8

* For full contents and more information, visit: www.routledge.com/9781032328683

Writing Using Sources for Academic Purposes

Theory, Research and Practice



Rosemary Wette

Writing Using Sources for Academic Purposes: Theory, Research and Practice provides research-based information about key components of source-based writing, and the challenges it presents for novices.

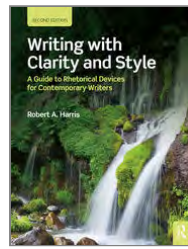
Routledge
December 2020 : 164pp
Pb: 978-0-367-17592-4 : **£41.99**
Hb: 978-0-367-17590-0 : **£155**
eBook: 978-0-429-05751-9

* For full contents and more information, visit: www.routledge.com/9780367175924

2ND EDITION

Writing with Clarity and Style

A Guide to Rhetorical Devices for Contemporary Writers



Robert A. Harris

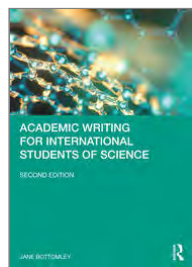
Writing with Clarity and Style, 2nd Edition, will help you to improve your writing dramatically. The book shows you how to use dozens of classical rhetorical devices to bring power, clarity, and effectiveness to your writing. You will also learn about writing styles, authorial personas, and sentence syntax as tools to make your writing interesting and persuasive. If you want to improve the appeal and persuasion of your speeches, this is also the book for you.

Routledge
December 2017 : 232pp
Pb: 978-1-138-56009-3 : **£40.99**
Hb: 978-1-138-56010-9 : **£155**
eBook: 978-0-203-71204-7

* For full contents and more information, visit: www.routledge.com/9781138560093

2ND EDITION

Academic Writing for International Students of Science



Jane Bottomley University of Manchester

This second edition is an accessible companion designed to help science and technology students develop the knowledge, skills and strategies needed to produce clear and coherent academic writing in their university assignments. Using authentic texts to explore the nature of scientific writing, the book covers key areas such as scientific style, effective sentence and paragraph structure, and coherence in texts and arguments. Throughout the book, a range of tasks offers the opportunity to put theory into practice. This is an invaluable tool for the busy science or technology student looking to improve their writing and reach their full academic potential.

Routledge

October 2021 : 220pp

Pb: 978-0-367-63272-4 : **£30.99**

Hb: 978-0-367-63271-7 : **£155**

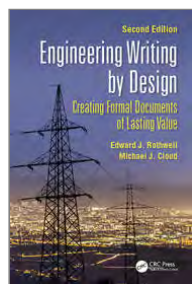
eBook: 978-1-003-11857-2

* For full contents and more information, visit: www.routledge.com/9780367632724

2ND EDITION

Engineering Writing by Design

Creating Formal Documents of Lasting Value, Second Edition



Edward J. Rothwell , Michael J. Cloud

This book shows how effective writing can be achieved by thinking like an engineer. Based on the authors' combined experience as engineering educators, the book presents a novel approach to technical writing, positioning formal writing tasks as engineering design problems with requirements, constraints, protocols, standards, and customers (readers) to satisfy. Featuring illustrative examples, chapter summaries and exercises, quick-reference tables, and recommendations for further reading, this book is packed with valuable tips and information practicing and aspiring engineers need to become effective writers.

CRC Press

January 2020 : 257pp

Pb: 978-0-367-34754-3 : **£55.99**

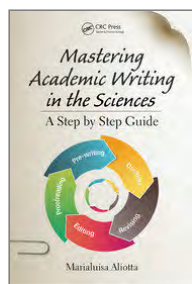
Hb: 978-0-367-89682-9 : **£125**

eBook: 978-0-429-32769-8

* For full contents and more information, visit: www.routledge.com/9780367347543

Mastering Academic Writing in the Sciences

A Step-by-Step Guide



Marialuisa Aliotta

This book provides a comprehensive and coherent step-by-step guide to writing in scientific academic disciplines. It is an invaluable resource for those working on a PhD thesis, research paper, dissertation, or report. Writing these documents can be a long and arduous experience for students and their supervisors, and even for experienced researchers. However, this book can hold the key to success. Mapping the steps involved in the writing process - from acquiring and organizing sources of information, to revising early drafts, to proofreading the final product - it provides clear guidance on what to write and how best to write it.

CRC Press

April 2018 : 200pp

Pb: 978-1-498-70147-1 : **£52.99**

Hb: 978-1-138-74288-8 : **£140**

eBook: 978-1-351-00214-1

* For full contents and more information, visit: www.routledge.com/9781498701471

3RD EDITION

Technical Writing

A Practical Guide for Engineers, Scientists, and Nontechnical Professionals



Philip A. Laplante The Pennsylvania State University, Malvern, USA, **Chris Laplante**

Series: *What Every Engineer Should Know*

This practical text enables readers to write, edit, and publish materials of a technical nature, including books, articles, reports, and electronic media. Written by experienced practicing engineers, this guide complements traditional technical writing manuals through presentation of first-hand examples that help readers understand practical considerations in writing and producing technical content. The new edition includes new and updated exercises, examples, and case studies and includes new content on software/systems documentation, popular writing tools, and technologies such as generative AI. It is aimed at students and professionals in the science and engineering domains.

CRC Press

November 2025 : 271pp

Pb: 978-1-032-84374-2 : **£47.99**

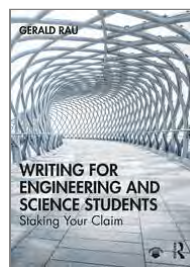
Hb: 978-1-032-84375-9 : **£160**

eBook: 978-1-003-51243-1

* For full contents and more information, visit: www.routledge.com/9781032843742

Writing for Engineering and Science Students

Staking Your Claim



Gerald Rau

Drawing on his extensive experience of teaching international students, Gerald A. Rau provides a clear "argument structure" for students to follow when undertaking both academic and technical writing. This is the first book to make clear the different structures required for engineering versus scientific articles. Tasks and exercises are provided throughout. Using the research article as a model and covering lab reports, research proposals, dissertations, poster presentations, industry reports, emails and job applications, this book is essential reading for all students of science and engineering who are taking a course in writing, or seeking a resource to aid in their writing assignments.

Routledge

August 2019 : 324pp

Pb: 978-1-138-38825-3 : **£40.99**

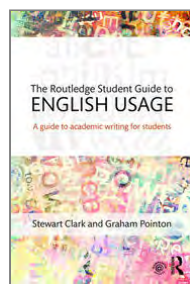
Hb: 978-1-138-38824-6 : **£155**

eBook: 978-0-429-42568-4

* For full contents and more information, visit: www.routledge.com/9781138388253

The Routledge Student Guide to English Usage

A guide to academic writing for students



Stewart Clark Norwegian University of Science and Technology, **Graham Pointon**

The Routledge Student Guide to English Usage is an authoritative A-Z guide to key aspects of English usage. Covering approximately 4000 carefully selected words, the authors focus on groups of confusable words that sound alike, look alike or are frequently mixed up. Examples of good usage are drawn from corpora such as the British National Corpus and the Corpus of Contemporary American English. A substantial reference section is also provided with stylistic guidance on academic writing skills, email standards, punctuation and grammar tips. This is the essential reference text for all students working on improving their academic writing skills.

Routledge

May 2016 : 402pp

Pb: 978-1-138-93359-0 : **£41.99**

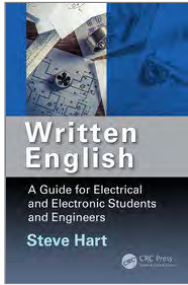
Hb: 978-1-138-93358-3 : **£155**

eBook: 978-1-315-67843-6

* For full contents and more information, visit: www.routledge.com/9781138933590

Written English

A Guide for Electrical and Electronic Students and Engineers



Steve Hart English Language Editor and Resource Writer, Cambridge, UK

This book covers all aspects of English grammar relevant to electrical and electronic engineers. It discusses working with numbers and algebra, including correct formatting procedures (both body citations and references). The book addresses vocabulary and stylistic issues, describes the level of writing expected in the field, reveals often-made mistakes, and indicates areas where engineers should focus their efforts. The text also offers unique insight into problems students and academics face on a day-to-day basis when writing in a language that is not their mother tongue.

CRC Press

December 2015 : 216pp

Pb: 978-1-498-73962-7 : **£41.99**

Hb: 978-1-138-42241-4 : **£200**

eBook: 978-1-315-21412-2

* For full contents and more information, visit: www.routledge.com/9781498739627

50 Things to Think About When Writing a Thesis

Paving Your Own Path to Submission



Donna Starks University of Auckland, New Zealand,
Margaret J. Robertson La Trobe University, Australia

This book shows thesis writers how to embrace the individual nature of writing, bringing their own unique identities and skillsets to their thesis. Each idea is presented as one that has multiple solutions depending on who the readers are and what they want to achieve. The book guides the reader on identifying their own ways of working, their own particular strengths, as well as their unique voice and how to use these as tools to navigate the process of writing and surviving the thesis. It also provides practical guidance on elements such as the literature review and methodology, considerations around language and how to deal with life after submission.

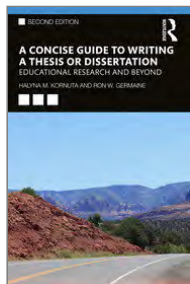
Routledge
August 2023 : 136pp
Pb: 978-1-032-34699-1 : **£28.99**
Hb: 978-1-032-34700-4 : **£145**
eBook: 978-1-003-32340-2

* For full contents and more information, visit: www.routledge.com/9781032346991

2ND EDITION

A Concise Guide to Writing a Thesis or Dissertation

Educational Research and Beyond



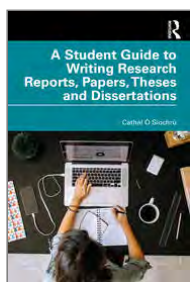
Halyna M. Kornuta, **Ron W. Germaine**

A Concise Guide to Writing a Thesis or Dissertation provides clear, concise, and intentional practice guidelines about organizing and writing a thesis or dissertation. Part I provides an overview for writing a thesis or dissertation. It describes the big picture of planning and formatting a research study, from identifying a topic through to writing quality. Part II describes the framework and substance of a research study. It models the pattern generally found in a formal, five-chapter research study.

Routledge
May 2019 : 134pp
Pb: 978-0-367-17458-3 : **£19.99**
Hb: 978-0-367-17457-6 : **£140**
eBook: 978-0-429-05688-8

* For full contents and more information, visit: www.routledge.com/9780367174583

A Student Guide to Writing Research Reports, Papers, Theses and Dissertations



Cathal Ó Siochrú

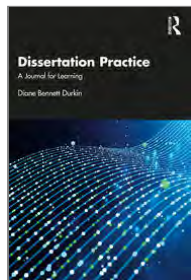
This useful guide for students combines all the guidance, advice, and key tips needed to write successful research reports, theses, or dissertations, exploring, in detail, each of the elements involved in writing an academic paper. The book will guide you through all the key sections of a report including the Introduction, Literature Review, Method, Results, Discussion and more.

Routledge
November 2022 : 234pp
Pb: 978-0-367-62104-9 : **£23.99**
Hb: 978-0-367-62103-2 : **£140**
eBook: 978-1-003-10796-5

* For full contents and more information, visit: www.routledge.com/9780367621049

Dissertation Practice

A Journal for Learning



Diane Bennett Durkin

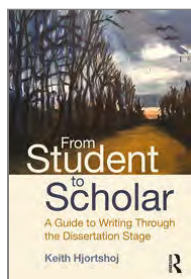
Dissertation Practice: A Journal for Learning is an interactive resource that promotes journaling to engender key dissertation practices, through activities and exercises. It is rooted in the view that students can use journaling to promote thought, and that the privacy of journal entries ensures comfort and familiarity. This personal context, along with the book's open prompts, allows students to engage in extended and alternative thinking. This is an essential resource for students in Ph.D and Ed.D programs in the social sciences and education who are using qualitative, quantitative, and mixed methods.

Routledge
October 2024 : 198pp
Pb: 978-1-032-85800-5 : **£26.99**
Hb: 978-1-032-85804-3 : **£145**
eBook: 978-1-003-51990-4

* For full contents and more information, visit: www.routledge.com/9781032858005

From Student to Scholar

A Guide to Writing Through the Dissertation Stage



Keith Hjortshoj John S. Knight Writing Program, Cornell University

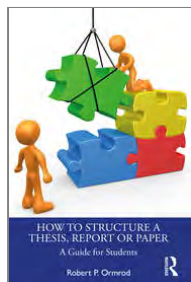
From Student to Scholar guides graduate students through the "hidden" developmental transition required in writing a dissertation and moving beyond, to become a successful scholar. Identifying common rhetorical challenges across disciplines, author Hjortshoj explains how to accommodate evolving audiences, motivations, standards, writing processes, and timelines. One full chapter is devoted to "writing blocks," and another offers advice to international students who are non-native speakers of English. The text also offers advice for managing relations with advisors and preparing for the diverse careers that PhDs, trained primarily as research specialists, actually enter.

Routledge
August 2018 : 204pp
Pb: 978-1-138-56944-7 : **£51.99**
Hb: 978-1-138-56942-3 : **£155**
eBook: 978-0-203-70426-4

* For full contents and more information, visit: www.routledge.com/9781138569447

How to Structure a Thesis, Report or Paper

A Guide for Students



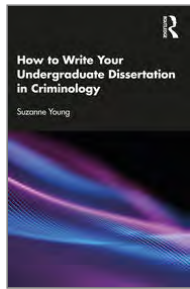
Robert P. Ormrod

This book provides concise practical guidance for students to help make their student's writing process more structured for their group work or thesis at any level. It therefore shows how to demonstrate meaningfully what they have learned in the relevant course or degree programme in a way that is accessible to the supervisor and the examiner. Suitable for students completing theses at Bachelors and Masters level, as well as other types of report-based work, and for supervisors looking for a clear and practical guide to help students with their writing process. The book will also provide a bridge to writing papers for journals in an academic career.

Routledge
November 2022 : 130pp
Pb: 978-1-032-36946-4 : **£19.99**
Hb: 978-1-032-36948-8 : **£140**
eBook: 978-1-003-33463-7

* For full contents and more information, visit: www.routledge.com/9781032369464

How to Write Your Undergraduate Dissertation in Criminology



Suzanne Young

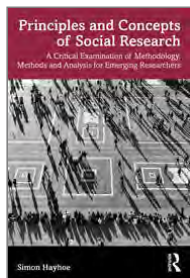
This book provides a guide for undergraduate criminology and criminal justice students undertaking their final year dissertation. Drawing on empirical case studies and including a range of resources and templates, this book takes students through each stage of the dissertation and offers useful guidance on structure and content.

Routledge
April 2022 : 146pp
Pb: 978-0-367-85999-2 : **£25.99**
Hb: 978-0-367-85998-5 : **£155**
eBook: 978-1-003-01633-5

* For full contents and more information, visit: www.routledge.com/9780367859992

Principles and Concepts of Social Research

A Critical Examination of Methodology, Methods and Analysis for Emerging Researchers



Simon Hayhoe

This text covers the foundations of social science research, outlining the history and core elements of Western social research, along with a variety of topics, ranging from the history of scientific beliefs from Ancient Greece to the contemporary world. This book will be of use to core research units and training programs that universities provide at postgraduate level, at doctoral level and for early career post-doctoral researchers, to develop greater understanding of issues surrounding research. In addition to its theory, the contents of the book will include questions for discussion in seminars and small group work.

Routledge
December 2022 : 200pp
Pb: 978-1-032-14967-7 : **£37.99**
Hb: 978-1-032-14966-0 : **£140**
eBook: 978-1-003-24199-7

* For full contents and more information, visit: www.routledge.com/9781032149677

2ND EDITION

Thesis and Dissertation Writing in a Second Language

A Handbook for Students and their Supervisors



Brian Paltridge, Sue Starfield

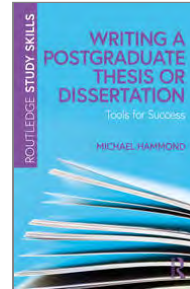
This fully updated edition is the guide for non-native speakers writing a thesis or dissertation in English. It explicitly unpacks academic writing, using accessible language and practical examples and discusses the issues that are crucial to success. These include: understanding the setting and purpose, understanding writer/reader relationships, issues of writer identity and what examiners really value. Suitable for students from all disciplines writing in a second language this book is equally valuable for supervisors of non-native speakers as it provides tasks that can be used with students to guide them in their writing.

Routledge
August 2019 : 248pp
Pb: 978-1-138-04870-6 : **£31.99**
Hb: 978-1-138-04869-0 : **£140**
eBook: 978-1-315-17002-2

* For full contents and more information, visit: www.routledge.com/9781138048706

Writing a Postgraduate Thesis or Dissertation

Tools for Success



Michael Hammond

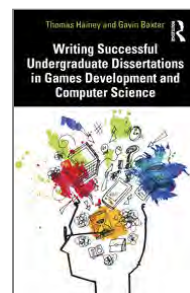
Series: *Routledge Study Skills*

Writing a Postgraduate Dissertation or Thesis discusses the challenges that students encounter in their writing and provides thoughtful advice on how to address those challenges. It provides key advice on how to write about a field of research, the tradition of methodology and methods undertaken, and the contribution to knowledge that is being made.

Routledge
July 2022 : 172pp
Pb: 978-0-367-75282-8 : **£20.99**
Hb: 978-0-367-75281-1 : **£155**
eBook: 978-1-003-16182-0

* For full contents and more information, visit: www.routledge.com/9780367752828

Writing Successful Undergraduate Dissertations in Games Development and Computer Science



Thomas Hainey School of Computing, Engineering and Physical Sciences, University of the West of Scotland,
Gavin Baxter

Writing a dissertation in the final year at university can be a daunting task, but particularly if the degree is practically oriented and implementation-based. This book provides a concise guide to producing a dissertation in Computer Science, Software Engineering or Games Development degrees with research projects typically involving design, implementation, testing and evaluation. Drawing on the authors' knowledge and experience of supervising dissertation students, the book offers a step-by-step guide to the key areas of writing a dissertation alongside real-life examples.

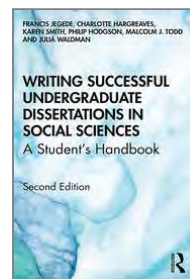
Routledge
November 2022 : 304pp
Pb: 978-0-367-51708-3 : **£23.99**
Hb: 978-0-367-51707-6 : **£140**
eBook: 978-1-003-05488-7

* For full contents and more information, visit: www.routledge.com/9780367517083

2ND EDITION

Writing Successful Undergraduate Dissertations in Social Sciences

A Student's Handbook



Francis Jegede, Charlotte Hargreaves, Karen Smith, Philip Hodgson, Malcolm Todd, Julia Waldman

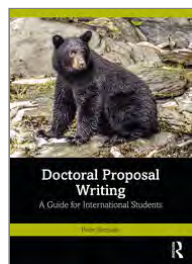
A practical guide for students undertaking their dissertation, this book uses real examples of dissertations across the Social Sciences. Providing an accessible overview of the essential steps in conducting research and writing dissertations, each chapter has clear learning outcomes and research objectives with relevant themes. Using a mixture of useful information, exercises, practical strategies, case study material and further reading, it gives hints and tips on beginning and managing a research project and working with supervisors. Packed with proven practical advice it is a dependable starting point and guide throughout the dissertation journey.

Routledge
February 2020 : 240pp
Pb: 978-0-367-25525-1 : **£25.99**
Hb: 978-0-367-25523-7 : **£155**
eBook: 978-0-429-28825-8

* For full contents and more information, visit: www.routledge.com/9780367255251

Doctoral Proposal Writing

A Guide for International Students



Peter Samuels Uni of Wolverhampton Busnss Schl

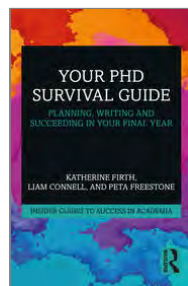
This book is an essential guide for current and prospective international doctoral students wishing to apply and study for a PhD in the UK, and other countries where courses are conducted in English. The book supports students in choosing a suitable research topic and writing an effective proposal for investigating this topic across a range of forms of doctoral research, across several disciplines, with an emphasis on international students and students with English as an additional language.

Routledge
October 2024 : 138pp
Pb: 978-1-032-56193-6 : **£28.99**
Hb: 978-1-032-56192-9 : **£155**
eBook: 978-1-003-43434-4

* For full contents and more information, visit: www.routledge.com/9781032561936

Your PhD Survival Guide

Planning, Writing, and Succeeding in Your Final Year



Katherine Firth University of Melbourne, Australia, **Liam Connell**, **Peta Freestone**

Series: Insider Guides to Success in Academia

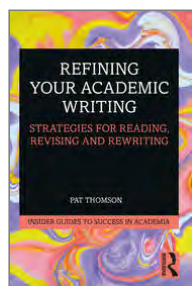
Accessible, insightful and a must-have toolkit for all doctoral students, the founders of the 'Thesis Boot Camp' intensive writing programme show how to survive and thrive through the challenging final year of writing and submitting a thesis. Drawing on an understanding of the intellectual, professional, practical and personal elements of the doctorate to help readers gain insight into what it means to finish a PhD and how to get there, this book covers common challenges and ways to resolve them. Written for students in all disciplines, and relevant to university systems around the world, this unique book expertly guides students through the final 6–12 months of the thesis.

Routledge
December 2020 : 222pp
Pb: 978-0-367-36184-6 : **£23.99**
Hb: 978-0-367-36183-9 : **£155**
eBook: 978-0-429-34439-8

* For full contents and more information, visit: www.routledge.com/9780367361846

Refining Your Academic Writing

Strategies for Reading, Revising and Rewriting



Pat Thomson

Series: Insider Guides to Success in Academia

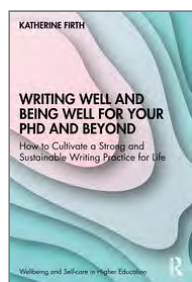
This book will help you complete your writing project and provides a reading, revising, and rewriting repertoire that you can adapt and add to. It offers ways to think about revision and a basic tool kit which will help you to identify what needs your attention and why. This accessible book draws on and extends some of the most heavily used posts on Thomson's popular academic writing blog Patter, as well as tried and tested writing workshops. Written with a light touch, this is ideal reading for doctoral and early career researchers, this book provides strategies needed to support the writing revision process.

Routledge
December 2022 : 236pp
Pb: 978-0-367-46876-7 : **£20.99**
Hb: 978-0-367-46875-0 : **£140**
eBook: 978-1-003-03168-0

* For full contents and more information, visit: www.routledge.com/9780367468767

Writing Well and Being Well for Your PhD and Beyond

How to Cultivate a Strong and Sustainable Writing Practice for Life



Katherine Firth University of Melbourne, Australia

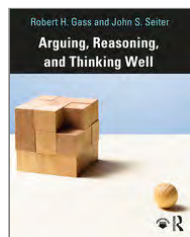
Series: Wellbeing and Self-care in Higher Education

Prioritising wellbeing alongside academic development, this book provides practical advice to help students write well, and be well, during their PhD and throughout their career. Relevant at any stage of the writing process, this book will help doctoral students and early career researchers to produce great words that people want to read, examiners want to pass and editors want to publish.

Routledge
September 2023 : 200pp
Pb: 978-1-032-31081-7 : **£23.99**
Hb: 978-1-032-31082-4 : **£145**
eBook: 978-1-003-30794-5

* For full contents and more information, visit: www.routledge.com/9781032310817

Arguing, Reasoning, and Thinking Well



Robert Gass, John Seiter

Arguing, Reasoning, and Thinking Well offers an engaging and accessible introduction to argumentation and critical thinking. Authors Gass and Seiter, renowned for their friendly writing style, include real-world examples, hypothetical dialogues, and editorial cartoons to invite readers in. The text includes a full chapter devoted to the ethics of argument, as well as content on refutation and formal logic. It is designed for students in argumentation and critical thinking courses in communication, philosophy, and psychology departments, and is suitable for students and general education courses across the curriculum.

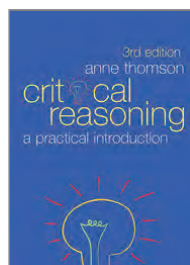
Routledge
June 2019 : 280pp
Pb: 978-0-815-37433-6 : **£86.99**
Hb: 978-0-815-37432-9 : **£175**
eBook: 978-1-351-24249-3

* For full contents and more information, visit: www.routledge.com/9780815374336

3RD EDITION

Critical Reasoning

A Practical Introduction



Anne Thomson

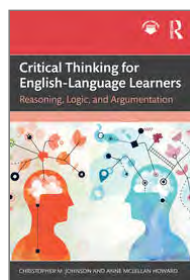
We all engage in the process of reasoning, but we don't always pay attention to whether we are doing it well. This book offers the opportunity to practise reasoning in a clear-headed and critical way, with the aims of developing an awareness of the importance of reasoning well and of improving the reader's skill in analyzing and evaluating arguments. Anne Thomson has updated and revised the book to include fresh and topical examples, and new chapters on evaluating the credibility of evidence and decision making and dilemmas. By the end of the book students should be able to identify flaws in arguments, analyze the reasoning in newspaper articles, books and speeches, assess the credibility of evidence and authorities and approach any topic with the ability to reason and think critically.

Routledge
September 2008 : 256pp
Pb: 978-0-415-44587-0 : **£40.99**
Hb: 978-0-415-44586-3 : **£155**
eBook: 978-0-203-87099-0

* For full contents and more information, visit: www.routledge.com/9780415445870

Critical Thinking for English-Language Learners

Reasoning, Logic, and Argumentation



Christopher M. Johnson, Anne McLellan Howard

Critical Thinking for English-Language Learners is an accessible introduction to critical thinking and the use of informal logic for learners of English. Critical thinking skills are key to helping students learn how to reason in English. By developing informal logic skills, students can develop their critical thinking abilities to better assess why different types of arguments are successful or unsuccessful. Providing students with key skills to make and critique arguments in English, this book is a key resource for beginning and intermediate learners of English studying Critical Thinking, English for Academic Purposes, and Introduction to Philosophy.

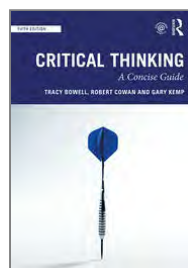
Routledge
February 2025 : 248pp
Pb: 978-1-032-75247-1 : **£41.99**
Hb: 978-1-032-75248-8 : **£155**
eBook: 978-1-003-47307-7

* For full contents and more information, visit: www.routledge.com/9781032752471

5TH EDITION

Critical Thinking

A Concise Guide



Tracy Bowell, Robert Cowan, Gary Kemp University of Glasgow, UK

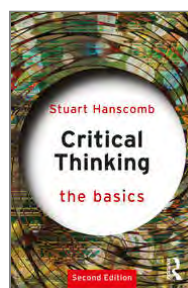
We are frequently confronted with arguments. Critical Thinking equips students with the concepts and techniques used in the analysis and assessment of arguments whatever the context. Through precise and accessible discussion, this book provides the tools to become a successful critical thinker, who can act and believe in accordance with good reasons, and who can articulate and make explicit those reasons. This fifth edition has been revised and updated throughout, including an expanded range of 'complete examples', the introduction of Venn diagrams, and the discussion of fake news and related phenomena arising in the contemporary scene.

Routledge
August 2019 : 348pp
Pb: 978-0-815-37143-4 : **£39.99**
Hb: 978-0-815-37142-7 : **£155**
eBook: 978-1-351-24373-5

* For full contents and more information, visit: www.routledge.com/9780815371434

2ND EDITION

Critical Thinking: The Basics



Stuart Hanscomb University of Glasgow, UK

Series: *The Basics*

An accessible and engaging introduction to the field of critical thinking, drawing on philosophy, communication and psychology. This 2nd edition has been revised and updated throughout and includes a new chapter on emotion and argument and how to build persuasive arguments. There are also many fresh examples, including conspiracy theories, trust, leadership and cultural cognition. With updated discussion questions/exercises and suggestions for further reading, this book is an essential read for students approaching the field of critical thinking for the first time, and for the general reader wanting to improving their thinking skills.

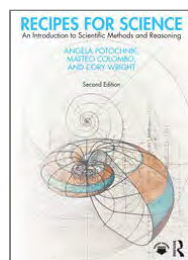
Routledge
June 2023 : 286pp
Pb: 978-1-032-16299-7 : **£20.99**
Hb: 978-1-032-16301-7 : **£145**
eBook: 978-1-003-24794-4

* For full contents and more information, visit: www.routledge.com/9781032162997

2ND EDITION

Recipes for Science

An Introduction to Scientific Methods and Reasoning



Angela Potochnik, Matteo Colombo, Cory Wright Tilburg University, The Netherlands

Today, scientific literacy is an essential aspect of any undergraduate education. Recipes for Science responds to this need by providing an accessible introduction to the nature of science and scientific methods, reasoning, and concepts

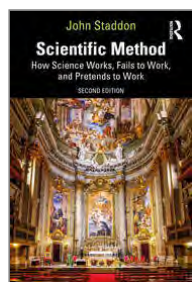
Routledge
April 2024 : 378pp
Pb: 978-1-032-29096-6 : **£45.99**
Hb: 978-1-032-29097-3 : **£185**
eBook: 978-1-003-30000-7

* For full contents and more information, visit: www.routledge.com/9781032290966

2ND EDITION

Scientific Method

How Science Works, Fails to Work, and Pretends to Work



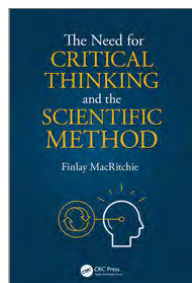
John Staddon Duke University, USA

This expanded second edition of *Scientific Method* shows how science works, fails to work, or pretends to work, by looking at examples from physics, biomedicine, psychology, sociology, and economics. *Scientific Method* is essential reading for students and professionals trying to make sense of the role of science in society, and of the meaning, value, and limitations of scientific methodology.

Routledge
June 2024 : 226pp
Pb: 978-1-032-65771-4 : **£33.99**
Hb: 978-1-032-68389-8 : **£155**
eBook: 978-1-032-68387-4

* For full contents and more information, visit: www.routledge.com/9781032657714

The Need for Critical Thinking and the Scientific Method



Finlay MacRitchie Kansas State University, Manhattan, USA

The book exposes many of the misunderstandings about the scientific method and its application to critical thinking. It argues for a better understanding of the scientific method and for nurturing critical thinking in the community. This knowledge helps the reader to analyze issues more objectively, and warns about the dangers of bias and propaganda. The principles are illustrated by considering several issues that are currently being debated. These include anthropogenic global warming (often loosely referred to as climate change), dangers to preservation of the Great Barrier Reef, and the expansion of the gluten-free food market and genetic engineering.

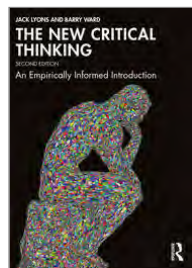
CRC Press
May 2018 : 152pp
Pb: 978-0-815-36775-8 : **£48.99**
Hb: 978-0-815-36815-1 : **£160**
eBook: 978-1-351-25587-5

* For full contents and more information, visit: www.routledge.com/9780815367758

2ND EDITION

The New Critical Thinking

An Empirically Informed Introduction



Jack Lyons, Barry Ward

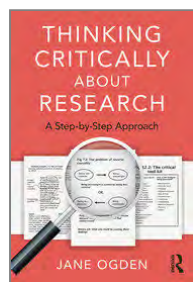
This highly innovative text aims to improve real-world critical thinking, incorporating insights from epistemology and philosophy of science to formulate best practices for assessing information sources and circumnavigate our natural intellectual blind spots. The book covers introductory logic in a way that emphasizes practical application, rather than formal completeness. This new edition provides ample resources and exercises for students and instructors alike both in-text and online.

Routledge
May 2024 : 412pp
Pb: 978-1-032-31728-1 : **£73.99**
Hb: 978-1-032-31730-4 : **£155**
eBook: 978-1-003-31102-7

* For full contents and more information, visit: www.routledge.com/9781032317281

Thinking Critically about Research

A Step by Step Approach



Jane Ogden

This book is designed to help readers develop a critical understanding of evidence and the ways in which evidence is presented, and to challenge the information they receive in both academic and non-academic sources. The author presents a step by step approach with a focus on knowing methods, culminating in a bespoke 'critical tool kit' which offers a practical checklist designed to be used when carrying out research. There are also learning features including tasks and worked examples, drawing on real research studies. This is an essential resource for students and researchers, and those putting research into practice, who want to have better critical thinking skills.

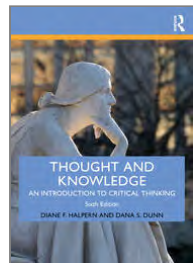
Routledge
December 2018 : 176pp
Pb: 978-0-367-00020-2 : **£40.99**
Hb: 978-0-367-00019-6 : **£155**
eBook: 978-0-429-44496-8

* For full contents and more information, visit: www.routledge.com/9780367000202

6TH EDITION

Thought and Knowledge

An Introduction to Critical Thinking



Diane F. Halpern Claremont McKenna College, USA,
Dana S. Dunn Moravian College, USA

Thought and Knowledge applies theory and research from the learning sciences to teach students the critical thinking skills that they need to succeed in today's world. The text is grounded in psychological science and brought to life through humorous and engaging language and numerous practical and real-world examples and anecdotes. Critical thinking skills are presented in every chapter, empowering students to learn more efficiently, research more productively, and present logical, critical, and informed arguments. The skills are reviewed at the end of the chapter, and a complete list of skills with definitions and examples are included in the appendix.

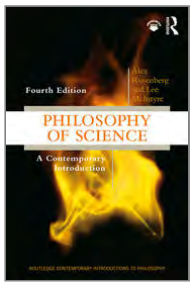
Routledge
October 2022 : 428pp
Pb: 978-1-138-65517-1 : **£69.99**
Hb: 978-1-138-65516-4 : **£220**
eBook: 978-1-032-32316-9 : **£61.99**

* For full contents and more information, visit: www.routledge.com/9781138655171

4TH EDITION

Philosophy of Science

A Contemporary Introduction

**Alex Rosenberg, Lee McIntyre***Series: Routledge Contemporary Introductions to Philosophy*

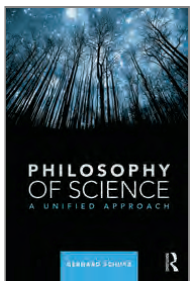
Any serious student attempting to better understand the nature, methods, and justification of science will value this book. Weaving lucid explanations with clear analyses, the volume is as a much-used, thematically-oriented introduction to the field. The new edition has been thoroughly rewritten based on instructor and student feedback, to improve readability and accessibility, without sacrificing depth. It retains all of the logically structured, extensive coverage of earlier editions, which the journal Teaching Philosophy called, "the industry standard" and "essential reading" in a 2010 review.

Routledge
November 2019 : 308pp
Pb: 978-1-138-33151-8 : **£49.99**
Hb: 978-1-138-33148-8 : **£155**
eBook: 978-0-429-44726-6

* For full contents and more information, visit: www.routledge.com/9781138331518

Philosophy of Science

A Unified Approach

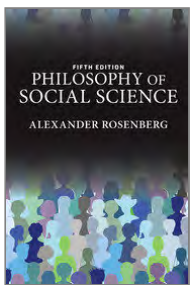
**Gerhard Schurz** Dusseldorf University, Germany,
Gerhard Schurz

Philosophy of Science: A Unified Approach combines an elementary introduction to philosophy of science with an integrated survey of all of its important subfields. Focusing on the methodological unity of the sciences, the book provides chapters with introductory sections, followed by complementary, advanced topics. By restricting the teaching materials to the introductory sections, one obtains the basis for a semester-long course. Covering all of the material contained in the book fills a year-long course.

Routledge
November 2013 : 480pp
Pb: 978-0-415-82936-6 : **£52.99**
Hb: 978-0-415-82934-2 : **£155**
eBook: 978-0-203-36627-1

* For full contents and more information, visit: www.routledge.com/9780415829366

5TH EDITION

Philosophy of Social Science**Alexander Rosenberg**

Philosophy of Social Science provides a tightly argued yet accessible introduction to the philosophical foundations of the human sciences, including economics, anthropology, sociology, political science, psychology, history, and the disciplines emerging at the intersections of these subjects with biology. Philosophy is unavoidable for social scientists because the choices they make in answering questions in their disciplines force them to take sides on philosophical matters. Conversely, the philosophy of social science is equally necessary for philosophers since the social and behavior sciences must inform their understanding of human action, norms, and social institutions.

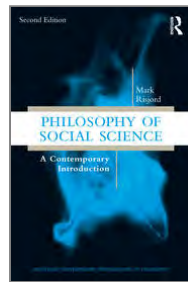
Routledge
July 2015 : 360pp
Pb: 978-0-813-34973-2 : **£49.99**
Hb: 978-0-367-09807-0 : **£155**
eBook: 978-0-429-49484-0

* For full contents and more information, visit: www.routledge.com/9780813349732

2ND EDITION

Philosophy of Social Science

A Contemporary Introduction

**Mark Risjord** Emory University, USA*Series: Routledge Contemporary Introductions to Philosophy*

This accessible text offers a comprehensive overview of debates in the field, with special attention to new research programs. Topics include the relationship of social policy to social science, interpretive research, cognitive and evolutionary explanations, intentional action explanation, rational choice theory, conventions and social norms, joint intentionality, causal inference, and experimentation. The Second Edition provides updates with the most recent literature and adds two new chapters: one on modeling and one on the role of race and gender in the social sciences.

Routledge
July 2022 : 336pp
Pb: 978-1-032-07586-0 : **£45.99**
Hb: 978-1-032-07587-7 : **£200**
eBook: 978-1-003-20779-5

* For full contents and more information, visit: www.routledge.com/9781032075860

A Dictionary of Social Research Methodology



Martyn Hammersley The Open University, UK

This accessible book offers a detailed guide to a wide range of methodological concepts, both those of a more philosophical kind and those that are more technical in character: from constructionism to critical realism, regression analysis to grounded theory, odds ratios to triangulation. Providing clear definitions for a wide range of methodological concepts from across the social sciences, this is an essential resource for all who have an interest in social research methodology.

Routledge
September 2024 : 180pp
Pb: 978-1-032-82213-6 : **£39.99**
Hb: 978-1-032-82215-0 : **£155**
eBook: 978-1-003-50350-7

* For full contents and more information, visit: www.routledge.com/9781032822136

Are You Making a Meal Out of Research?

A Recipe for Research Success



Steve Reay, Cassie Khoo, Gareth Terry, Guy Collier, Trent Dallas, Valance Smith

Research methods in a comic! This visual guide to common research methods paradigms will get you started on thinking about your research journey - what research is and understanding different types of methods, how you choose them, and how you get started. The book includes several worksheets to start making your own research menu and further reading to learn more. Suitable for upper level undergraduate and first level postgraduate students in the social and behavioural sciences, healthcare, and those interested in indigenous and Māori research methods.

Routledge
May 2023 : 72pp
Pb: 978-1-032-39232-5 : **£16.99**
Hb: 978-1-032-39230-1 : **£145**
eBook: 978-1-003-34892-4

* For full contents and more information, visit: www.routledge.com/9781032392325

A-Z of Digital Research Methods



Catherine Dawson

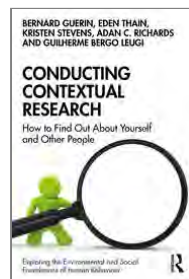
This book provides a quick and easy, alphabetical reference guide for any student or researcher looking for an introduction to digital research methods. It provides a pathway through the often confusing digital research landscape, giving a concise introduction to each method.

Routledge
July 2019 : 424pp
Pb: 978-1-138-48680-5 : **£29.99**
Hb: 978-1-138-48679-9 : **£140**
eBook: 978-1-351-04467-7

* For full contents and more information, visit: www.routledge.com/9781138486805

Conducting Contextual Research

How to Find Out About Yourself and Other People



Bernard Guerin University of South Australia, Australia,
Eden Thain, Kristen Stevens, Adan C. Richards, Guilherme Bergo Leugi

Series: Exploring the Environmental and Social Foundations of Human Behaviour

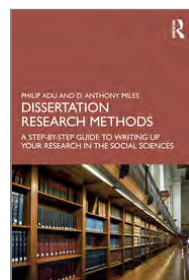
This innovative book proposes an entirely new approach to social research, presenting practical ways to discover people's life contexts in order to understand why they do what they do, which is essential for any forms of research that need to understand people. Conducting Contextual Research is essential reading for postgraduate students and professionals in the fields of counselling, psychology and social work, and will be useful to anyone conducting research or inquiries to understand human behaviour, including academic researchers, detectives, intelligence operators, social workers, government service researchers, social policy analysts, and biographers.

Routledge
June 2024 : 190pp
Pb: 978-1-032-60818-1 : **£46.99**
Hb: 978-1-032-60825-9 : **£145**
eBook: 978-1-003-46063-3

* For full contents and more information, visit: www.routledge.com/9781032608181

Dissertation Research Methods

A Step-by-Step Guide to Writing Up Your Research in the Social Sciences



Philip Adu The National Centre for Academic and Dissertation Excellence, The Chicago School of Professional Psychology, USA, **D. Anthony Miles**

Dissertation Research Methods: A Step-by-Step Guide to Writing Up Your Research in the Social Sciences focuses specifically on methodology when planning, writing and submitting your dissertation thesis. Written by two methodology experts in the social sciences, the book provides a step-by-step guide through each stage of the dissertation process. This compact book will be of use to all graduate students and their supervisors in the Social Sciences, Education and Behavioural Sciences, looking for a guide for working with robust and defensible methodological principles in their dissertation research and theses.

Routledge
September 2023 : 470pp
Pb: 978-1-032-21385-9 : **£45.99**
Hb: 978-1-032-21383-5 : **£155**
eBook: 978-1-003-26815-4

* For full contents and more information, visit: www.routledge.com/9781032213859

Doing Academic Research

A Practical Guide to Research Methods and Analysis



Ted Gournelos

Doing Academic Research is a concise, accessible, and tightly organized overview of the research process in the humanities, social sciences, and business. Rather than a book about research, this is a practical guide to doing research, and guides budding researchers along the process of developing an effective workflow, where to go for help, and how to actually complete the project. It addresses diversity in abilities, interest, discipline, and ways of knowing by focusing not just on the process of conducting any one method in detail, but also the ways in which someone might choose a research method and conduct it successfully.

Routledge
May 2019 : 208pp
Pb: 978-0-367-20793-9 : **£19.99**
Hb: 978-0-367-20791-5 : **£140**
eBook: 978-0-429-26355-2

* For full contents and more information, visit: www.routledge.com/9780367207939

Literature Review and Research Design

A Guide to Effective Research Practice



Dave Harris

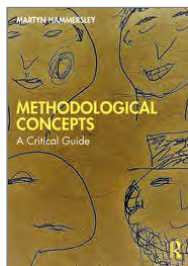
Graduate students executing their first independent research project often struggle to use academic literature effectively in the process of designing, developing, executing, and presenting their work. This book gives an overview of how to develop an effective research practice supported by the academic literature. Particularly suitable for those pursuing professional doctorates in subjects such as education and psychology.

Routledge
December 2019 : 176pp
Pb: 978-0-367-25037-9 : **£29.99**
Hb: 978-0-367-25036-2 : **£140**
eBook: 978-0-429-28566-0

* For full contents and more information, visit: www.routledge.com/9780367250379

Methodological Concepts

A Critical Guide



Martyn Hammersley The Open University, UK

Methodological Concepts: A Critical Guide clarifies many key terms and issues in social research methodology. It outlines the conventional meanings of these terms, but also addresses their contentious character. The aim is to offer interpretations of them that provide a coherent conception of the nature of social science.

Routledge
February 2023 : 186pp
Pb: 978-1-032-39574-6 : **£36.99**
Hb: 978-1-032-39573-9 : **£140**
eBook: 978-1-003-35035-4

* For full contents and more information, visit: www.routledge.com/9781032395746

4TH EDITION

Principles and Methods of Social Research



William D. Crano Claremont Graduate University, USA,
Marilynn B. Brewer Ohio State University, USA, **Andrew Lac** Claremont Graduate University, USA

Through a multi-methodology approach, Principles and Methods of Social Research, Fourth Edition covers the latest research techniques and designs and guides readers toward the design and conduct of social research from the ground up. Applauded for its comprehensive coverage, the breadth and depth of content of this new edition is unparalleled. It is intended for graduate or advanced undergraduate courses in research methods in psychology, communication, sociology, education, public health, and marketing, and further appeals to researchers in various fields of social research, such as social psychology and communication.

Routledge
July 2023 : 486pp
Pb: 978-1-032-22240-0 : **£94.99**
Hb: 978-1-032-22241-7 : **£155**
eBook: 978-1-003-27173-4

* For full contents and more information, visit: www.routledge.com/9781032222400

5TH EDITION

Principles of Research in Behavioral Science



Mary E. Kite, **Bernard E. Whitley, Jr** Ball State University, USA

Now in its fifth edition, this invaluable textbook provides a comprehensive overview of research methods in the behavioral sciences, emphasizing the conceptual challenges inherent in scientific inquiry. Organized to mirror each stage of the research process, this text guides readers through the process, from formulating questions, to collecting data, to interpreting results. Ideal for advanced undergraduate, graduate, and post-graduate students seeking a strong foundation in research methods, it also serves as a valuable reference for seasoned researchers looking to refresh their knowledge.

Routledge
July 2025 : 806pp
Hb: 978-1-032-72058-6 : **£130**
IEPB: 978-1-032-72059-3 : **£45.99**
eBook: 978-1-032-72060-9

* For full contents and more information, visit: www.routledge.com/9781032720586

2ND EDITION

Research Design, Second Edition

Quantitative, Qualitative, Mixed Methods, Arts-Based, and Community-Based Participatory Research Approaches



Patricia Leavy

With a new chapter on the literature review, this accessible step-by-step guide to using the five major approaches to research design is now in a thoroughly revised second edition. The prior edition's user-friendly features are augmented by a new companion website with worksheets keyed to each chapter. For each approach, the text presents a template for a research proposal and explains how to conceptualize and fill in every section. Interdisciplinary research examples draw on current events and social justice issues. PowerPoints and chapter tests with answer keys are available to instructors using the book in a course.

Guilford Press
January 2023 : 323pp
Pb: 978-1-462-54897-2 : **£45.99**
Hb: 978-1-462-55088-3 : **£69.99**

* For full contents and more information, visit: www.routledge.com/9781462548972

2ND EDITION

Research Methods

The Key Concepts



Michael Hammond University of Warwick, UK, **Jerry Wellington**

Series: Routledge Key Guides

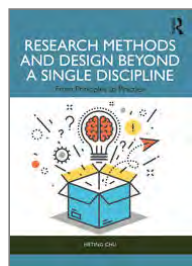
This invaluable resource provides a comprehensive overview of the many methods and methodologies of social research. Each entry provides a critical definition and examines the value and difficulties of a particular method or methodology of concept across different fields of social research. With thematic further reading stretching across the social sciences, this second edition will help readers develop a firm understanding of the rationale and principles behind key research methods, and is a must-have for new researchers at all levels, from undergraduate to postgraduate and beyond.

Routledge
September 2020 : 232pp
Pb: 978-0-367-17874-1 : **£23.99**
Hb: 978-0-367-17873-4 : **£115**
eBook: 978-0-429-05816-5

* For full contents and more information, visit: www.routledge.com/9780367178741

Research Methods and Design Beyond a Single Discipline

From Principles to Practice



Heting Chu

This book presents and discusses 15 research methods after an overview of each, an illustration of the research process and an examination of related topics. The focus of this book is on data collection techniques and research design. This book is essential for masters and doctoral students, and researchers who wish to learn about research methods and design comprehensively and systematically, as well as instructors delivering research methods courses across the social and behavioral sciences.

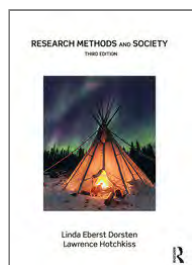
Routledge
April 2024 : 360pp
Pb: 978-0-367-89885-4 : **£61.99**
Hb: 978-0-367-89883-0 : **£155**
eBook: 978-1-003-02171-1

* For full contents and more information, visit: www.routledge.com/9780367898854

3RD EDITION

Research Methods and Society

Foundations of Social Inquiry



Linda Eberst Dorsten , Lawrence Hotchkiss

Research Methods and Society, Third Edition is designed to help undergraduate students acquire basic skills in methods of social science research. These skills provide a foundation for understanding research findings in the social sciences and for conducting social research. Just as important, such skills sets and principles can be applied to everyday situations to make sense of endless stream of claims and counterclaims confronted daily in print and electronic forms, including social media.

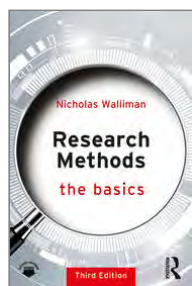
Routledge
December 2018 : 410pp
Pb: 978-0-815-36615-7 : **£96.99**
Hb: 978-0-815-36616-4 : **£245**
eBook: 978-1-351-25981-1

* For full contents and more information, visit: www.routledge.com/9780815366157

3RD EDITION

Research Methods

The Basics



Nicholas Walliman Oxford Brookes University, UK

Series: The Basics

Research Methods: The Basics is an accessible, user-friendly introduction to the different aspects of research theory, methods and practice. This third edition provides an expanded and fully updated resource suitable for students and practitioners in a wide range of disciplines including the natural sciences, social sciences and humanities. It is structured in two parts - the first covers the nature of knowledge and the reasons for doing research, the second explains the specific methods used to conduct an effective research project and how to propose, plan, carry out and write up a research project.

Routledge
December 2021 : 280pp
Pb: 978-0-367-69408-1 : **£20.99**
Hb: 978-0-367-69407-4 : **£150**
eBook: 978-1-003-14169-3

* For full contents and more information, visit: www.routledge.com/9780367694081

2ND EDITION

Social Research Methods by Example

Applications in the Modern World



Yasemin Besen-Cassino , Dan Cassino Fairleigh Dickson University

This book sharpens students' understanding of the research process and the essential methods that researchers use to perform their work on the cutting edge of the social sciences. The new edition features updated examples across the chapters, reflecting new directions within the social sciences and both a diversity of voices and research output in recent years. The authors also expand their chapter overviews in key areas and weave discussion of validity and ethics carefully into the fabric of each chapter's focus. Written not only to introduce students to the basic principles of social science research, this book provides readers with a toolkit to carry out the process on their own.

Routledge
May 2023 : 342pp
Pb: 978-1-032-20920-3 : **£40.99**
Hb: 978-1-032-21005-6 : **£145**
eBook: 978-1-003-26632-7

* For full contents and more information, visit: www.routledge.com/9781032209203

The Illustrated Guide to Social Science Research



Divya Sharma

This accessible and engaging textbook helps students to get to grips with key concepts, issues, and practices in social science research through the use of fun and informative illustrations and examples.

Routledge
July 2024 : 248pp
Pb: 978-1-032-32377-0 : **£39.99**
Hb: 978-1-032-32379-4 : **£155**
eBook: 978-1-003-31473-8

* For full contents and more information, visit: www.routledge.com/9781032323770

2ND EDITION

The Research Companion

A practical guide for those in the social sciences, health and development



Petra M. Boynton University College London, UK

Books on social and behavioral research too often focus on theory and methods and overlook the practical skills needed to undertake a research project. The Research Companion brings hard-earned lessons from the real world to offer clear and honest advice to all students and practitioners within the social and health sciences. The structure of the book makes it useful for researchers at all levels of experience: the numerous examples and case histories make it ideal for students just beginning their first research project, while the breadth of coverage and wealth of practical tips will also help more experienced researchers.

Routledge
September 2016 : 300pp
Pb: 978-1-138-91761-3 : **£52.99**
Hb: 978-1-138-91760-6 : **£155**
eBook: 978-1-315-68890-9

* For full contents and more information, visit: www.routledge.com/9781138917613

2ND EDITION

The Researcher's Toolkit

The Complete Guide to Practitioner Research



David Wilkinson Research Fellow within the Work-Based Learning Unit at the University of Leeds, **Dennis Dokter**

Designed for those undertaking research for the first time, the second edition of *The Researcher's Toolkit* is a practical and accessible guide for all those partaking in small-scale research. Jargon-free and assuming no prior knowledge, it covers the entire research process, from defining a research topic or question through to its completion. This book is a must-read guide for students and budding researchers as well as educators seeking to explain academic research and writing to their pupils. It will benefit anyone looking to complete a research project whether inside academia or beyond.

Routledge

May 2023 : 178pp

Pb: 978-1-032-01810-2 : **£28.99**

Hb: 978-1-032-01809-6 : **£145**

eBook: 978-1-003-18015-9

* For full contents and more information, visit: www.routledge.com/9781032018102

11TH EDITION

Understanding Research Methods

An Overview of the Essentials



Michelle Newhart, **Mildred L. Patten**

A perennial bestseller since 1997, this updated eleventh edition of *Understanding Research Methods* provides a detailed overview of all the important concepts traditionally covered in a research methods class. It covers the principles of both qualitative and quantitative research, and how to interpret statistics without computations, so is suitable for all students regardless of their math background. The book is organized so that each concept is treated independently and can be used in any order without resulting in gaps in knowledge—allowing it to be easily and precisely adapted to any course.

Routledge

June 2023 : 528pp

Pb: 978-0-367-55118-6 : **£96.99**

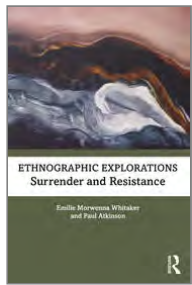
Hb: 978-0-367-55117-9 : **£255**

eBook: 978-1-003-09204-9

* For full contents and more information, visit: www.routledge.com/9780367551186

Ethnographic Explorations

Surrender and Resistance



Emilie Morwenna Whitaker Salford University, UK, **Paul Atkinson**

In *Ethnographic Explorations: Surrender and Resistance*, Whitaker and Atkinson, two experienced ethnographers, explore the complexities of fieldwork, analysis and writing from new perspectives. It takes the opportunity to reflect on Ethnography not just as a methodological perspective, but at a fundamental level. The book is intended for researchers at postgraduate and postdoctoral levels and at experienced researchers who want to read a different, sometimes challenging, take on ethnographic research and its outcomes.

Routledge
March 2023 : 184pp
Pb: 978-0-367-17441-5 : **£38.99**
Hb: 978-0-367-17440-8 : **£140**
eBook: 978-0-429-05680-2

* For full contents and more information, visit: www.routledge.com/9780367174415

Ethnographic Research in the Social Sciences



Edited by **Madhulika Sahoo**, **S. Jeyavelu**, **Anjali Kurane**

This book is an essential guide to scientifically conducting contemporary ethnographic research at undergraduate, postgraduate and doctoral levels in the social sciences, the humanities, and business studies. It addresses the methodological challenges of ethnographic research across the social sciences and highlights present time research areas, including digital ethnography, artificial intelligence, classroom pedagogy, hybrid organization and many more. A step-by-step, student friendly text, this book will be essential supplementary reading across the social sciences and the humanities, especially for those conducting fieldwork in the Global South.

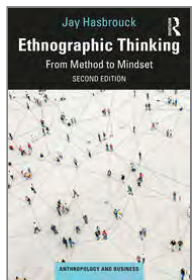
Routledge India
June 2023 : 282pp
Pb: 978-1-032-49233-9 : **£40.99**
Hb: 978-1-032-48008-4 : **£155**
eBook: 978-1-003-39277-4

* For full contents and more information, visit: www.routledge.com/9781032492339

2ND EDITION

Ethnographic Thinking

From Method to Mindset



Jay Hasbrouck

Series: Anthropology and Business

This second edition of *Ethnographic Thinking: From Method to Mindset* serves as a primer for practitioners who want to apply ethnography to real-world challenges and commercial ventures. This new edition now includes a section in each chapter focusing on practical advice to help readers activate key insights in their work. This work is essential reading for managers and strategists who want to tap into the full potential that an ethnographic perspective offers. It will also be of value to students and practitioners of applied ethnography, as well as professionals who would like to optimize the value of ethnographic thinking in their organizations.

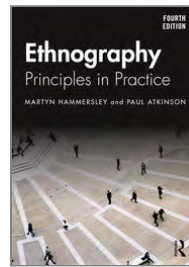
Routledge
April 2024 : 156pp
Pb: 978-1-032-46309-4 : **£40.99**
Hb: 978-1-032-46308-7 : **£155**
eBook: 978-1-003-38107-5

* For full contents and more information, visit: www.routledge.com/9781032463094

4TH EDITION

Ethnography

Principles in Practice



Martyn Hammersley The Open University, UK, **Paul Atkinson** Cardiff University, UK

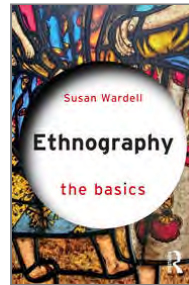
This edition has been expertly updated to reflect the important developments in digital and mobile technologies and social media. The ease with which recordings, audio or video, as well as photographs, can be produced via the use of mobile devices has opened up new tools and foci for ethnographers.

Routledge
April 2019 : 292pp
Pb: 978-1-138-50446-2 : **£45.99**
Hb: 978-1-138-50445-5 : **£170**
eBook: 978-1-315-14602-7

* For full contents and more information, visit: www.routledge.com/9781138504462

Ethnography

The Basics



Susan Wardell

Series: The Basics

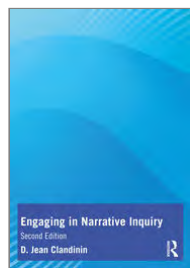
Ethnography: The Basics introduces a broad and beginner audience to ethnography, as a research methodology with diverse applications. By using everyday language, and developing a warm and inclusive tone, the book provides an accessible entry point to the topic.

Routledge
May 2025 : 278pp
Pb: 978-1-032-52012-4 : **£19.99**
Hb: 978-1-032-51311-9 : **£155**
eBook: 978-1-003-40488-0

* For full contents and more information, visit: www.routledge.com/9781032520124

2ND EDITION

Engaging in Narrative Inquiry



D. Jean Clandinin

In *Engaging in Narrative Inquiry*, Second Edition, D. Jean Clandinin, a pioneer in narrative research, updates her classic formulation on narrative inquiry, clarifying, extending, and refining methods. The increasing interest in narrative inquiry as research methodology across disciplines makes this an essential guide and an excellent text for graduate courses in qualitative inquiry, education and nursing research, sociology, and all courses in autobiographical and narrative research and inquiry.

Routledge
September 2022 : 176pp
Pb: 978-1-032-14610-2 : **£45.99**
Hb: 978-1-032-14609-6 : **£155**
eBook: 978-1-003-24014-3

* For full contents and more information, visit: www.routledge.com/9781032146102

2ND EDITION

Essentials of Qualitative Inquiry



Maria J. Mayan

Series: Qualitative Essentials

Essentials of Qualitative Inquiry, Second Edition is the key resource for introducing applied researchers into the qualitative tradition due to its clear exposition, step-by-step approach, and emphasis on methodological coherence. Concise and inexpensive, this edition includes new material on methods, sampling, and analysis and introduces current trends in community-based research and arts-based research, among other updates.

Routledge
May 2023 : 328pp
Pb: 978-1-629-58327-3 : **£31.99**
Hb: 978-1-629-58326-6 : **£135**
eBook: 978-1-003-38575-2

* For full contents and more information, visit: www.routledge.com/9781629583273

2ND EDITION

Qualitative Research

The Essential Guide to Theory and Practice



Maggi Savin-Baden Prof of Higher Education Research at Coventry University, UK, **Claire Howell Major** Prof of Higher Education at the University of Alabama, USA

The second edition of *Qualitative Research* is a one-stop resource for all those approaching qualitative research for the first time as well as those revisiting core concepts and issues. It presents a comprehensive overview of this rapidly developing field of inquiry, cleverly combined with practical, hands-on advice on how to conduct a successful qualitative study. This book is enhanced with the addition of online Instructor and Student Resources including videos, diagrams, an instructor manual, PowerPoint slides and links to further resources. This new edition is an indispensable companion and makes for ideal reading for all those involved in qualitative research worldwide.

Routledge
October 2025 : 664pp
Pb: 978-1-032-77458-9 : **£45.99**
Hb: 978-1-032-77460-2 : **£155**
eBook: 978-1-003-48319-9

* For full contents and more information, visit: www.routledge.com/9781032774589

Qualitative Research Using Social Media



Gwen Bouvier, Joel Rasmussen

This book shows how to conduct qualitative research projects using social media data. It takes the reader through the stages of choosing data, formulating a research question, and choosing and applying method(s).

Routledge
March 2022 : 214pp
Pb: 978-0-367-33347-8 : **£45.99**
Hb: 978-0-367-33350-8 : **£155**
eBook: 978-0-429-31933-4

* For full contents and more information, visit: www.routledge.com/9780367333478

2ND EDITION

Thinking with Theory in Qualitative Research



Alecia Y. Jackson Appalachian State University, USA,
Lisa A. Mazzei University of Oregon, USA

Thinking with Theory in Qualitative Research, Second Edition demonstrates how to enact various philosophical concepts in practices of inquiry, effectively opening up the process of thought in qualitative studies. In the ten years since the first edition was published, *Thinking with Theory* has become a vanguard text in the field of postfoundational inquiry for its accessible but thorough introductions to philosophically informed inquiry. This book is for experienced and novice researchers, and students in introductory, general, and advanced qualitative inquiry courses, who may also be first-time readers of philosophy.

Routledge
July 2022 : 170pp
Pb: 978-1-138-95214-0 : **£45.99**
Hb: 978-1-138-95213-3 : **£155**
eBook: 978-1-315-66776-8

* For full contents and more information, visit: www.routledge.com/9781138952140

Transformative Moments in Qualitative Research

Method, Theory, and Reflection



Anna Cohen-Miller

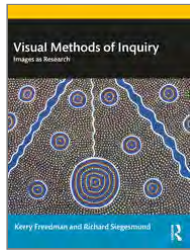
This groundbreaking book, eloquently fuses powerful stories of research with methodological insight and theory. Each chapter offers a clear, practical, and engaging exploration of qualitative inquiry, emphasizing the power of research to foster equity, inclusion, and justice-centered practice (e.g., social justice, economic justice, environmental/ecological justice). This book is an invaluable resource for graduate students, practitioners, and researchers to enhance their research and praxis. It will appeal to audiences across disciplinary backgrounds including social sciences, educational sciences, humanities, and STEM and health fields.

Routledge
December 2023 : 314pp
Pb: 978-1-032-38170-1 : **£41.99**
Hb: 978-1-032-38168-8 : **£145**
eBook: 978-1-003-34381-3

* For full contents and more information, visit: www.routledge.com/9781032381701

Visual Methods of Inquiry

Images as Research



Kerry Freedman , Richard Siegesmund

Visual Methods of Inquiry: Images as Research presents qualitative researchers in the social sciences with the benefits, applications, and forms of visual research methods. It includes a wide variety of images to illustrate the many uses of visual methods for social research. Students of social science and the visual arts will find this book useful in expanding and improving their methods of inquiry. Artists and researchers already familiar with visual methods will find that this book clarifies the ways the visual works in various research contexts and provides helpful language to describe and explain those methods.

Routledge

October 2023 : 238pp

Pb: 978-0-367-25048-5 : **£37.99**

Hb: 978-0-367-25049-2 : **£145**

eBook: 978-0-429-28572-1

* For full contents and more information, visit: www.routledge.com/9780367250485

2ND EDITION

Design Methods and Practices for Research of Project Management



Edited by **Beverly Pasian, Rodney Turner**

Design Methods and Practices for Research of Project Management is the most comprehensive guide on how to do research of and in project management. This second edition of the authoritative reference book offers a substantial update on the first edition with over 60% new content and so provides both practitioner and student researchers with a fully up-to-date and complete guide to research practice on project management.

Routledge
May 2024 : 368pp
Pb: 978-1-032-12387-5 : **£38.99**
Hb: 978-1-032-74496-4 : **£145**
eBook: 978-1-003-46951-3

* For full contents and more information, visit: www.routledge.com/9781032123875

2ND EDITION

Management Research

Applying the Principles of Business Research Methods



Susan Rose, Nigel Spinks, Ana Isabel Canhoto

Management Research supports new researchers on every step of the research journey, from defining a project to communicating its findings, as well as balancing the technical aspects of research with the management of the project itself. Management Research provides essential reading for undergraduate and postgraduate students undertaking a dissertation, thesis or research project, as well as professionals currently practicing in the field.

Routledge
December 2023 : 482pp
Pb: 978-1-032-46295-0 : **£57.99**
Hb: 978-1-032-46296-7 : **£190**
eBook: 978-1-003-38100-6

* For full contents and more information, visit: www.routledge.com/9781032462950

3RD EDITION

Planning Research in Hospitality and Tourism



Levent Altinay Oxford Brookes University, UK,
Alexandros Paraskevas, Faizan Ali

Planning Research in Hospitality and Tourism, 3rd Edition is an accessible, concise and practical guide to planning, conducting and analysing research in tourism and hospitality. Enriched with insightful case studies throughout, this volume is essential reading for all tourism and hospitality researchers.

Routledge
June 2024 : 372pp
Pb: 978-1-032-52258-6 : **£51.99**
Hb: 978-1-032-52257-9 : **£155**
eBook: 978-1-003-40579-5

* For full contents and more information, visit: www.routledge.com/9781032522586

Research Methodologies for Business Management



Vanessa Ratten La Trobe University, Australia

Most existing research methodologies texts take a more general approach or are edited books of previously published articles or chapters written by different authors. This book, written by a business management scholar, covers the fundamentals of business management research and its methodologies in a seamless, unified manner. It builds upon the knowledge by examining both qualitative and quantitative research methodologies in the context of business management. It will help business management students and junior researchers quickly build an essential base of knowledge and gain a strategic advantage in publishing and reviewing business related research.

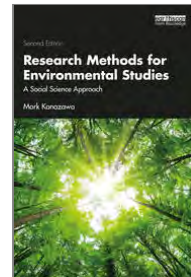
Routledge
February 2023 : 158pp
Pb: 978-1-032-32337-4 : **£46.99**
Hb: 978-1-032-32338-1 : **£140**
eBook: 978-1-003-31451-6

* For full contents and more information, visit: www.routledge.com/9781032323374

2ND EDITION

Research Methods for Environmental Studies

A Social Science Approach



Mark Kanazawa Carleton College, USA

The methodological needs of environmental studies are unique in the breadth of research questions that can be posed, calling for a textbook that covers a broad swath of approaches to conducting research with potentially many different kinds of evidence. Drawing on a variety of extended and updated examples to encourage problem-based learning and fully addressing the challenges associated with interdisciplinary investigation, this book will be an essential resource for students embarking on courses exploring research methods in environmental studies.

Routledge
July 2023 : 498pp
Pb: 978-1-032-19840-8 : **£40.99**
Hb: 978-1-032-19841-5 : **£155**
eBook: 978-1-003-26111-7

* For full contents and more information, visit: www.routledge.com/9781032198408

Researching and Analysing Business

Research Methods in Practice



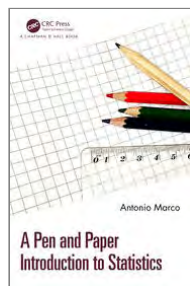
Edited by **Pantea Foroudi, Charles Dennis** Middlesex Business School, UK

Researching and Analysing Business provides an accessible and practical guide to various data collection and data analysis techniques within management. Unique in its practical approach, this book is required and recommended reading for advanced undergraduate and postgraduate students studying research methods.

Routledge
December 2023 : 456pp
Pb: 978-0-367-62065-3 : **£44.99**
Hb: 978-0-367-62064-6 : **£160**
eBook: 978-1-003-10777-4

* For full contents and more information, visit: www.routledge.com/9780367620653

A Pen and Paper Introduction to Statistics



Antonio Marco University of Essex, U.K.

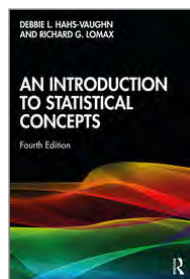
This book proposes to reverse the way statistics is taught, by starting with the introduction of linear models. The reader will have the opportunity to work through the examples and compute sums of squares by just drawing and counting, and finally evaluating whether observed differences are statistically significant by using the tables provided. Intended for students, professional life scientists, and those with little prior knowledge of statistics, this book is for all with simple and clear examples, computations and drawings helping the reader to, not only do, but also to understand statistics.

Chapman & Hall
December 2023 : 160pp
Pb: 978-1-032-50510-7 : **£35.99**
Hb: 978-1-032-50511-4 : **£105**
eBook: 978-1-003-39882-0

* For full contents and more information, visit: www.routledge.com/9781032505107

4TH EDITION

An Introduction to Statistical Concepts



Debbie L. Hahs-Vaughn University of Central Florida, USA, **Richard Lomax** The Ohio State University, USA

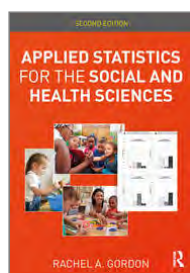
This comprehensive, flexible text is used in both one- and two-semester courses to review introductory through intermediate statistics. Instructors select the topics that are most appropriate for their course. Its conceptual approach helps students more easily understand the concepts and interpret SPSS and research results. Noted for its crystal clear explanations, key concepts are simply stated and occasionally reintroduced and related to one another for reinforcement. Numerous examples demonstrate their relevance. This edition features even more explanation to increase understanding of the concepts and has annotated script for using R.

Routledge
February 2020 : 1186pp
Hb: 978-1-138-65055-8 : **£130**
eBook: 978-1-315-62435-8

* For full contents and more information, visit: www.routledge.com/9781138650558

2ND EDITION

Applied Statistics for the Social and Health Sciences



Rachel A. Gordon Northern Illinois University, USA

Covering basic univariate and bivariate statistics and regression models for nominal, ordinal, and interval outcomes, this textbook provides graduate students in the social and health sciences with fundamental skills to estimate, interpret, and publish quantitative research using contemporary standards. Reflecting the growing importance of 'Big Data', this thoroughly revised and streamlined new edition, outlines changes in best practice in use of statistics in social and health sciences, draws upon new literatures and empirical examples, and highlights the importance of statistical programming, including coding, reproducibility, transparency, and open science.

Routledge
July 2023 : 800pp
Pb: 978-1-032-32344-2 : **£46.99**
Hb: 978-1-032-32343-5 : **£155**
eBook: 978-1-003-31453-0

* For full contents and more information, visit: www.routledge.com/9781032323442

9TH EDITION

Interpreting Basic Statistics

A Workbook Based on Excerpts from Journal Articles



Zealure C. Holcomb, **Keith S. Cox** University of North Carolina, USA

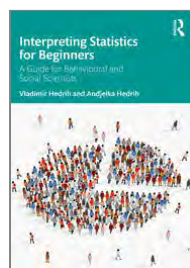
Interpreting Basic Statistics gives students valuable practice in interpreting statistical reporting as it actually appears in peer-reviewed journals. The questions in each exercise are divided into two parts: (1) Factual Questions and (2) Questions for Discussion. The factual questions require careful reading for details, while the discussion questions show that interpreting statistics is more than a mathematical exercise. Each exercise covers a limited number of topics, making it easy to coordinate the exercises with lectures or a traditional statistics textbook.

Routledge
September 2021 : 258pp
Pb: 978-0-367-56197-0 : **£66.99**
Hb: 978-0-367-56051-5 : **£200**
eBook: 978-1-003-09676-4

* For full contents and more information, visit: www.routledge.com/9780367561970

Interpreting Statistics for Beginners

A Guide for Behavioural and Social Scientists



Vladimir Hedrih, **Andjelka Hedrih**

Interpreting Statistics for Beginners teaches readers to correctly read and interpret results of basic statistical procedures as they are presented in scientific literature, and to understand what they can and cannot infer from such results. Written in an easy-to-read style and focusing on explaining concepts behind statistical calculations, the book is most helpful for readers with no previous training in statistics, and also those wishing to bridge the conceptual gap between doing the statistical calculations and interpreting the results.

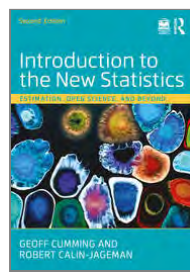
Routledge
February 2022 : 204pp
Pb: 978-0-367-61852-0 : **£39.99**
Hb: 978-0-367-62051-6 : **£155**
eBook: 978-1-003-10771-2

* For full contents and more information, visit: www.routledge.com/9780367618520

2ND EDITION

Introduction to the New Statistics

Estimation, Open Science, and Beyond



Geoff Cumming, **Robert Calin-Jageman**

This fully revised and updated second edition is an essential introduction to inferential statistics. It is the first introductory statistics text to use an estimation approach with meta-analysis ("the new statistics") from the start and also to explain the new and exciting Open Science practices, which encourage replication and enhance the trustworthiness of research. Designed for introduction to statistics, data analysis or quantitative methods courses in psychology, education and other social and health sciences, researchers interested in understanding Open Science and the new statistics will also appreciate this book.

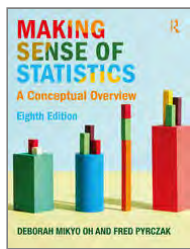
Routledge
March 2024 : 610pp
Pb: 978-0-367-53150-8 : **£72.99**
Hb: 978-0-367-53149-2 : **£225**
eBook: 978-1-032-68947-0

* For full contents and more information, visit: www.routledge.com/9780367531508

8TH EDITION

Making Sense of Statistics

A Conceptual Overview

**Deborah M. Oh , Fred Pyrczak**

Making Sense of Statistics, Eighth Edition, is the ideal introduction to the concepts of descriptive and inferential statistics for students undertaking their first research project. It presents each statistical concept in a series of short steps, then uses worked examples and exercises to enable students to apply their own learning. This conceptual book is useful for all study levels, from undergraduate to doctoral level across disciplines. Once students understand and feel comfortable with the statistics presented in this book, they should find it easy to master additional statistical concepts.

Routledge

June 2023 : 284pp

Pb: 978-1-032-28964-9 : **£52.99**Hb: 978-1-032-28962-5 : **£145**

eBook: 978-1-003-29935-6

* For **full contents** and more information, visit: www.routledge.com/9781032289649

4TH EDITION

Research Design and Statistical Analysis**Caren M. Rotello , Jerome L. Myers , Arnold D. Well , Robert F. Lorch, Jr.** University of Kentucky, Lexington, USA

This fully updated fourth edition of Research Design and Statistical Analysis provides comprehensive coverage of the design principles and statistical concepts necessary to make sense of real data. Incorporating the analyses of both experimental and observational data, and with coverage that is broad and deep enough to serve a two-semester sequence, this textbook is suitable for researchers, graduate students and advanced undergraduates in psychology, education, and other behavioral, social, and health sciences. The book is supported by a robust set of digital resources, including data files and exercises from the book in an Excel format, R scripts, and a solutions manual.

Routledge

January 2025 : 834pp

Pb: 978-1-032-89728-8 : **£80.99**Hb: 978-1-032-59210-7 : **£155**

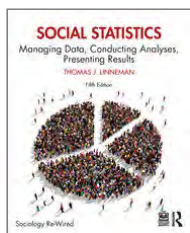
eBook: 978-1-003-45355-0

* For **full contents** and more information, visit: www.routledge.com/9781032897288

5TH EDITION

Social Statistics

Managing Data, Conducting Analyses, Presenting Results

**Thomas J. Linneman** The College of William and Mary, USA*Series: Sociology Re-Wired*

With a clear, engaging writing style and fascinating examples using a variety of real data, this text covers the contemporary statistical techniques that students will encounter in the world of social research. It covers these techniques at an introductory level and carefully guides students through increasingly complex examples without intimidating them.

Routledge

August 2025 : 668pp

Pb: 978-1-032-49035-9 : **£105**Hb: 978-1-032-49037-3 : **£155**

eBook: 978-1-003-39196-8

* For **full contents** and more information, visit: www.routledge.com/9781032490359

2ND EDITION

Statistical Methods

An Introduction to Basic Statistical Concepts and Analysis

**Cheryl Ann Willard**

Statistical Methods explains core statistical concepts and basic analysis techniques for the beginning undergraduate student in statistics or quantitative research methods. Each chapter covers a core concept before guiding students through a series of exercises designed to apply and demonstrate their knowledge. Expanded coverage of the second edition includes two new chapters on essential topics such as factorial analysis of variance, additional chapter exercises, and a full suite of instructor resources – powerpoint slides, instructor manual and test bank questions.

Routledge

March 2020 : 364pp

Pb: 978-0-367-20352-8 : **£60.99**Hb: 978-0-367-20351-1 : **£195**

eBook: 978-0-429-26103-9

* For **full contents** and more information, visit: www.routledge.com/9780367203528

4TH EDITION

Statistics Explained**Perry R. Hinton** Warwick University, UK

Statistics Explained is an accessible introduction to statistical concepts and ideas for undergraduate and postgraduate students new to the field. It makes few assumptions about the reader's statistical knowledge, carefully explaining each step of the analysis and the logic behind it. This new edition will include instructions and tips on how to present data and findings from SPSS output files, updated and more extensive case studies, and a section on alternative statistical software like R.

Routledge

October 2024 : 356pp

Pb: 978-0-367-36635-3 : **£39.99**Hb: 978-0-367-36638-4 : **£145**

eBook: 978-0-429-35326-0

* For **full contents** and more information, visit: www.routledge.com/9780367366353

2ND EDITION

Statistics for the Behavioural Sciences

An Introduction to Frequentist and Bayesian Approaches

**Riccardo Russo**

This accessible textbook is for those without a mathematical background (just some notions of basic algebra are sufficient) and provides a comprehensive introduction to all topics covered in introductory behavioural science statistics courses. This timely and highly readable text will be invaluable to undergraduate students of psychology and research methods courses in related disciplines, as well as anyone with an interest in understanding and applying the basic concepts and inferential techniques associated with statistics in the behavioural sciences.

Routledge

November 2020 : 330pp

Pb: 978-1-138-71150-1 : **£39.99**Hb: 978-1-138-71148-8 : **£155**

eBook: 978-1-315-20041-5

* For **full contents** and more information, visit: www.routledge.com/9781138711501

5TH EDITION

Statistics in Plain English



Timothy C. Urdan Santa Clara University, USA

Statistics in Plain English is a straightforward, conversational introduction to statistics that delivers exactly what its title promises. Each chapter begins with a brief overview of a statistic that describes what the statistic does and when to use it, followed by a detailed step-by-step explanation of how the statistic works and exactly what information it provides. Chapters also include an example of the statistic (or statistics) in use in real-world research, "Worked Examples," "Writing It Up" sections that demonstrate how to write about each statistic, "Wrapping Up and Looking Forward" sections, and practice work problems.

Routledge

March 2022 : 322pp

Pb: 978-0-367-34283-8 : **£37.99**

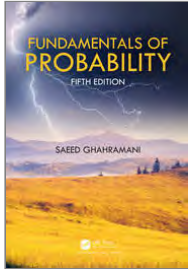
Hb: 978-0-367-34282-1 : **£195**

eBook: 978-1-032-22944-7 : **£33.99**

* For full contents and more information, visit: www.routledge.com/9780367342838

5TH EDITION

Fundamentals of Probability



Saeed Ghahramani Western New England University,
Springfield, Massachusetts, USA

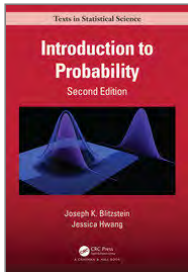
This one- or two-term calculus-based basic probability text is written for majors in mathematics, physical sciences, engineering, statistics, actuarial science, business and finance, operations research, and computer science. It presents probability in a natural way: through interesting and instructive examples and exercises that motivate the theory, definitions, theorems, and methodology. This book is mathematically rigorous and, at the same time, closely matches the historical development of probability. Whenever appropriate, historical remarks are included, and the 2096 examples and exercises have been designed to arouse curiosity and encourage students to delve into the theory.

Chapman & Hall
May 2024 : 700pp
Hb: 978-1-032-36608-1 : **£130**
IEPB: 978-1-032-80353-1 : **£49.99**
eBook: 978-1-003-33289-3

* For full contents and more information, visit: www.routledge.com/9781032366081

2ND EDITION

Introduction to Probability, Second Edition



Joseph K. Blitzstein Harvard University, Cambridge,
Massachusetts, USA, **Jessica Hwang** Stanford University,
California, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

Undergraduate probability book that assumes one-semester of calculus. One key is the emphasis on "stories" for the probability distributions (which I mean in both an intuitive and technical sense): there are a dozen or so key distributions (Normal, Binomial, Poisson, etc.) that are incredibly widely-used in statistics, but a lot of books just write down formulas for them without explaining clearly why these particular distributions are so important, or how they are all connected. Each of these distributions has a "story" (a natural application where it arises), and thinking about stories makes the distributions easier to remember, understand, and work with.

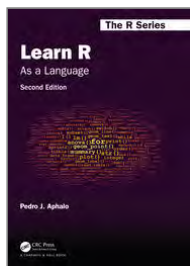
Chapman & Hall
February 2019 : 634pp
Hb: 978-1-138-36991-7 : **£76.99**
eBook: 978-0-429-42835-7

* For full contents and more information, visit: www.routledge.com/9781138369917

2ND EDITION

Learn R

As a Language



Pedro J. Aphalo University of Helsinki, Faculty of Biological and Environmental Sciences

Series: Chapman & Hall/CRC The R Series

Learning a computer language like R can be either frustrating, fun, or boring. Having fun requires challenges that wake up the learner's curiosity but also provide an emotional reward on overcoming them. This is the second edition of a book designed so that it includes smaller and bigger challenges, in what I call playgrounds, in the hope that all readers will enjoy their path to R fluency.

Chapman & Hall
April 2024 : 466pp
Pb: 978-1-032-51699-8 : **£67.99**
Hb: 978-1-032-51843-5 : **£175**
eBook: 978-1-003-40418-7

* For full contents and more information, visit: www.routledge.com/9781032516998

2ND EDITION

R Data Analysis without Programming

Explanation and Interpretation



David W. Gerbing Portland State University, USA

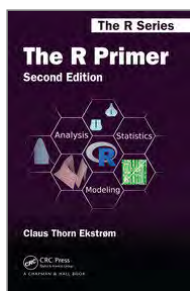
The new edition of this innovative book, prepares the readers to quickly analyse data and interpret statistical results using R. Professor Gerbing has developed lessR, which is a ground-breaking method in alleviating the challenges of R programming. The lessR extends R, removing the need for programming. This edition expands upon the first edition's introduction to R through lessR which enables the readers to learn how to organize data for analysis, read the data into R, and generate output without performing numerous functions and programming exercises first.

Routledge
January 2023 : 378pp
Pb: 978-1-032-24403-7 : **£55.99**
Hb: 978-1-032-24402-0 : **£140**
eBook: 978-1-003-27841-2

* For full contents and more information, visit: www.routledge.com/9781032244037

2ND EDITION

R Primer



Claus Thorn Ekström University of Copenhagen, Denmark

Series: Chapman & Hall/CRC The R Series

Newcomers to R are often intimidated by the command-line interface, the vast number of functions and packages, or the processes of importing data and performing a simple statistical analysis. The R Primer provides a collection of concise examples and solutions to R problems frequently encountered by new users of this statistical software. This new edition adds coverage of R Studio and reproducible research.

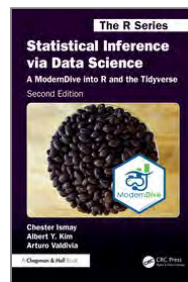
Chapman & Hall
March 2017 : 426pp
Pb: 978-1-138-63197-7 : **£59.99**
Hb: 978-1-498-77255-6 : **£125**
eBook: 978-1-315-15441-1

* For full contents and more information, visit: www.routledge.com/9781138631977

2ND EDITION

Statistical Inference via Data Science

A ModernDive into R and the Tidyverse



Chester Ismay DataCamp, **Albert Y. Kim**, **Arturo Valdivia**

Series: Chapman & Hall/CRC The R Series

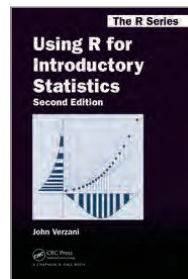
Offers a comprehensive guide to learning statistical inference with data science tools widely used in industry, academia, and government. Ideal for those new to statistics or looking to deepen their knowledge, this edition provides a clear entry point into data science and modern statistical methods.

Chapman & Hall
May 2025 : 490pp
Pb: 978-1-032-70837-9 : **£68.99**
Hb: 978-1-032-72451-5 : **£170**
eBook: 978-1-032-72454-6

* For full contents and more information, visit: www.routledge.com/9781032708379

2ND EDITION

Using R for Introductory Statistics



John Verzani CUNY/College of Staten Island, New York, USA

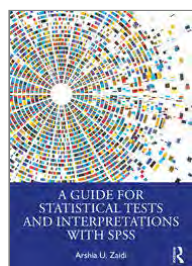
Series: Chapman & Hall/CRC The R Series

The second edition of a bestselling textbook, Using R for Introductory Statistics guides students through the basics of R, helping them overcome the sometimes steep learning curve. The author does this by breaking the material down into small, task-oriented steps. The second edition maintains the features that made the first edition so popular, while updating data, examples, and changes to R in line with the current version.

Chapman & Hall
June 2014 : 518pp
Hb: 978-1-466-59073-1 : **£67.99**
eBook: 978-1-315-37308-9

* For full contents and more information, visit: www.routledge.com/9781466590731

A Guide for Statistical Tests and Interpretations with SPSS



Arshia U. Zaidi

A Guide for Statistical Tests and Interpretations with SPSS is designed for students taking basic and advanced courses in statistics, taking an integrative and practical approach to learning statistics. It guides students through navigating SPSS outputs and writing quantitatively, dealing with technical and substantive interpretations without resorting to complex mathematical formulae. With SPSS screenshots and step-by-step advice, this book will be useful for all undergraduate and graduate students in the social sciences and humanities, as a supplemental textbook to provide practical guidance on moving through all steps of statistical testing and analysis.

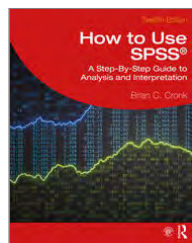
Routledge
October 2024 : 244pp
Pb: 978-1-032-10210-8 : **£48.99**
Hb: 978-1-032-10520-8 : **£140**
eBook: 978-1-003-21569-1

* For full contents and more information, visit: www.routledge.com/9781032102108

12TH EDITION

How to Use SPSS®

A Step-By-Step Guide to Analysis and Interpretation



Brian C. Cronk

This book is designed with the novice computer user in mind and for people who have no previous experience using SPSS. Each chapter is divided into short sections that describe the statistic being used, important underlying assumptions, and how to interpret the results and express them in a research report. The book begins with the basics, such as starting SPSS, defining variables, and entering and saving data. It covers all major statistical techniques typically taught in beginning statistics classes, such as descriptive statistics, graphing data, prediction and association, parametric inferential statistics, nonparametric inferential statistics and statistics for test construction.

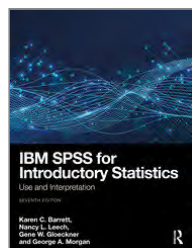
Routledge
January 2024 : 252pp
Pb: 978-1-032-58235-1 : **£65.99**
Hb: 978-1-032-58519-2 : **£155**
eBook: 978-1-003-45046-7

* For full contents and more information, visit: www.routledge.com/9781032582351

7TH EDITION

IBM SPSS for Introductory Statistics

Use and Interpretation



Karen C. Barrett Colorado State University, USA, **Nancy L. Leech** University of Colorado at Denver, USA, **Gene W. Gloeckner** Colorado State University, USA, **George A. Morgan** Colorado State University, USA

IBM SPSS for Introductory Statistics is designed to help students learn how to analyze and interpret research. In easy-to-understand language, the authors show readers how to choose the appropriate statistic based on the design, and to interpret outputs appropriately. This volume is an invaluable supplemental (or lab text) book for students. In addition, this book and its companion, IBM SPSS for Intermediate Statistics, are useful as guides/reminders to faculty and professionals regarding the specific steps to take to use SPSS and/or how to use and interpret parts of SPSS with which they are unfamiliar.

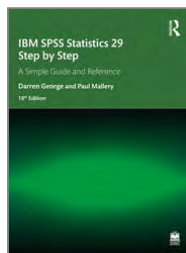
Routledge
September 2025 : 258pp
Pb: 978-1-032-41030-2 : **£47.99**
Hb: 978-1-032-41031-9 : **£155**
eBook: 978-1-003-35590-8

* For full contents and more information, visit: www.routledge.com/9781032410302

18TH EDITION

IBM SPSS Statistics 29 Step by Step

A Simple Guide and Reference



Darren George, Paul Mallery

IBM SPSS Statistics 29 Step by Step: A Simple Guide and Reference, eighteenth edition, takes a straightforward, step-by-step approach that makes SPSS software clear to beginners and experienced researchers alike. Accompanied by updated online instructor's materials and website data files, this is an essential resource for instructors and students needing a guide to using SPSS in their work, across the social sciences, behavioural sciences, education, and beyond.

Routledge
March 2024 : 440pp
Pb: 978-1-032-62193-7 : **£75.99**
Hb: 978-1-032-62212-5 : **£235**
eBook: 978-1-032-62215-6

* For full contents and more information, visit: www.routledge.com/9781032621937

3RD EDITION

SPSS Explained



Perry R. Hinton Warwick University, UK, **Isabella McMurray** University of Bedfordshire, UK, **Charlotte Brownlow**, **Peter C. Terry**

SPSS Explained provides the student with all that they need to undertake statistical analysis using SPSS. It combines a step-by-step approach to each procedure with easy-to-follow screenshots at each stage of the process. The authors have many years of experience in teaching SPSS to students from a wide range of disciplines. Their understanding of SPSS users' concerns, as well as a knowledge of the type of questions students ask, form the foundation of this book.

Routledge
September 2023 : 386pp
Pb: 978-0-367-36699-5 : **£52.99**
Hb: 978-0-367-36698-8 : **£145**
eBook: 978-0-429-35086-3

* For full contents and more information, visit: www.routledge.com/9780367366995

Geocomputation with Python



Michael Dorman , Anita Graser , Jakub Nowosad , Robin Lovelace University of Leeds, UK

Series: Chapman & Hall/CRC The Python Series

Geocomputation with Python is a comprehensive resource for working with geographic data with the most popular programming language in the world. The book gives an overview of Python's capabilities for spatial data analysis, as well as dozens of worked-through examples covering the entire range of standard GIS operations. Another unique feature is that this book is part of a wider community.

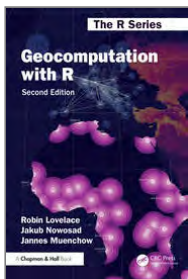
Geocomputation with Python is a sister project of Geocomputation with R (Lovelace, Nowosad, and Muenchow 2019), a book on geographic data analysis, visualization, and modeling using the R programming language that has numerous contributors and an active community.

Chapman & Hall
February 2025 : 344pp
Pb: 978-1-032-46065-9 : **£58.99**
Hb: 978-1-032-45891-5 : **£160**
eBook: 978-1-003-37991-1

* For **full contents** and more information, visit: www.routledge.com/9781032460659

2ND EDITION

Geocomputation with R



Robin Lovelace University of Leeds, UK, **Jakub Nowosad , Jannes Muenchow** Friedrich Schiller University, Jena, Germany

Series: Chapman & Hall/CRC The R Series

Geocomputation with R is for people who want to analyze, visualize, and model geographic data with open source software. The book provides a foundation for learning how to solve a wide range of geographic data analysis problems in a reproducible, and therefore scientifically sound and scalable way. The second edition features numerous updates, including the adoption of the high-performance terra package for all raster data processing, detailed coverage of the spherical geometry engine s2, updated information on coordinate reference systems and new content on openEO, STAC, COG, and gdalcubes. The book equips you with the knowledge and skills to tackle a wide range of issues.

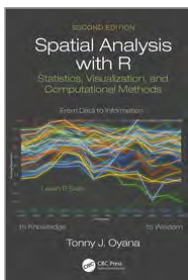
Chapman & Hall
May 2025 : 420pp
Pb: 978-1-032-24888-2 : **£58.99**
Hb: 978-1-032-22979-9 : **£160**
eBook: 978-1-003-28056-9

* For **full contents** and more information, visit: www.routledge.com/9781032248882

2ND EDITION

Spatial Analysis with R

Statistics, Visualization, and Computational Methods



Tonny J. Oyana

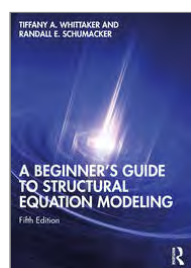
The implementation of new tools and methods for spatial analysis using R, the use and growth of artificial intelligence, machine learning and deep learning algorithms with a spatial perspective, and the interdisciplinary use of spatial analysis are all new topics in this second edition. The book provides a balance between concepts and practicum of spatial statistics with a comprehensive coverage of the most important approaches to understand spatial data, analyze spatial relationships and spatial patterns, and predict spatial processes. It offers new datasets, insights, and excellent illustrations to senior undergraduate and first year graduate students in geography and geosciences.

CRC Press
September 2023 : 354pp
Pb: 978-0-367-53238-3 : **£48.99**
Hb: 978-0-367-86085-1 : **£125**
eBook: 978-1-003-02164-3

* For **full contents** and more information, visit: www.routledge.com/9780367532383

5TH EDITION

A Beginner's Guide to Structural Equation Modeling



Randall E. Schumacker , Tiffany A. Whittaker

A Beginner's Guide to Structural Equation Modeling, fifth edition, has been redesigned with consideration of a true beginner in structural equation modeling (SEM) in mind. The book covers introductory through intermediate topics in SEM in more detail than in any previous edition. This book is intended for true beginners in structural equation modeling and is designed for introductory graduate courses in structural equation modeling taught in psychology, education, business, and the social and healthcare sciences. This book also appeals to researchers and faculty in various disciplines. Prerequisites include correlation and regression methods.

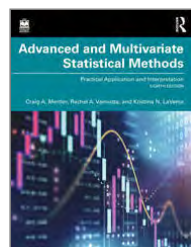
Routledge
May 2022 : 418pp
Pb: 978-0-367-47796-7 : **£76.99**
Hb: 978-0-367-49015-7 : **£155**
eBook: 978-1-003-04401-7

* For full contents and more information, visit: www.routledge.com/9780367477967

8TH EDITION

Advanced and Multivariate Statistical Methods

Practical Application and Interpretation



Craig A. Mertler Arizona State University, USA, **Rachel A. Vannatta** , **Kristina N. LaVenía** Bowling Green State University

Advanced and Multivariate Statistical Methods, Eighth Edition offers conceptual and practical insights into multivariate statistical techniques, designed for students without requiring deep technical or mathematical expertise. This updated text facilitates conceptual understanding of multivariate statistical methods by limiting the technical nature of the discussion of those concepts and focusing on their practical applications. This book is tailored for students taking a multivariate statistics course in graduate programs across a range of fields, including psychology, education, sociology, criminal justice, social work, mass communication, and nursing.

Routledge
September 2025 : 352pp
Pb: 978-1-032-89050-0 : **£145**
Hb: 978-1-032-91296-7 : **£155**
eBook: 978-1-003-56243-6

* For full contents and more information, visit: www.routledge.com/9781032890500

Data Analytics for the Social Sciences

Applications in R



G. David Garson

This book presents a complete exploration of statistical data analysis in R for a wide variety of social science disciplines and quantitative methods courses. Covering all the bases including multilevel modeling and ANOVA / ANCOVA, the book also goes further by looking at topics such as: neural networks to implement deep learning, thus solving complex problems other algorithms cannot; how to deal with missing values in real world data; and the use of text analytics. R code input and output is included. Suitable for all advanced level undergraduate and postgraduate students learning statistical data analysis.

Routledge
November 2021 : 704pp
Pb: 978-0-367-62427-9 : **£94.99**
Hb: 978-0-367-62429-3 : **£265**
eBook: 978-1-003-10939-6

* For full contents and more information, visit: www.routledge.com/9780367624279

Doing Statistical Analysis

A Student's Guide to Quantitative Research



Christer Thrane

Doing Statistical Analysis looks at three kinds of statistical research questions – descriptive, associational and inferential – and shows students how to conduct statistical analyses and interpret the results. Keeping equations to a minimum, it uses a conversational style and relatable examples such as football, covid-19 and tourism, to aid understanding. Each chapter contains practice exercises, and a section showing students how to reproduce the statistical results in the book using Stata and SPSS. Its accessible approach means this is the ideal textbook for undergraduate students across the social and behavioural sciences needing to build their confidence with statistical analysis.

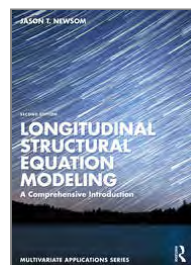
Routledge
July 2022 : 266pp
Pb: 978-1-032-17132-6 : **£55.99**
Hb: 978-1-032-18030-4 : **£155**
eBook: 978-1-003-25255-9

* For full contents and more information, visit: www.routledge.com/9781032171326

2ND EDITION

Longitudinal Structural Equation Modeling

A Comprehensive Introduction



Jason T. Newsom Portland State University, USA

Series: Multivariate Applications Series

Longitudinal Structural Equation Modeling, Second Edition provides an in-depth, comprehensive overview of structural equation modeling (SEM) strategies for longitudinal data to help readers see which modeling options are available for which hypotheses. Ideal for graduate courses on longitudinal (data) analysis, advanced SEM, longitudinal SEM, and/or advanced data (quantitative) analysis taught in the behavioral, social, and health sciences, Longitudinal Structural Equation Modeling, Second Edition, also appeals to researchers in these fields, and the first edition has been popular as a standard reference for this type of analysis.

Routledge
October 2023 : 522pp
Pb: 978-1-032-20286-0 : **£78.99**
Hb: 978-1-032-20283-9 : **£155**
eBook: 978-1-003-26303-6

* For full contents and more information, visit: www.routledge.com/9781032202860

3RD EDITION

Multilevel and Longitudinal Modeling with IBM SPSS



Ronald H. Heck University of Hawaii, Manoa, **Scott L. Thomas** University of Vermont, USA, **Lynn N. Tabata** University of Hawaii, Manoa

Series: Quantitative Methodology Series

This text demonstrates how to use the multilevel- and longitudinal-modeling techniques available in IBM SPSS (Version 26). Adopting a workbook format, the text walks readers through setting up, running, and interpreting a variety of different types of multilevel and longitudinal models using the linear mixed-effects model (MIXED and GENLINMIXED) platforms in SPSS. This text is an essential resource for graduate students taking courses on multilevel, longitudinal, and latent variable modeling, multivariate statistics, or advanced quantitative techniques.

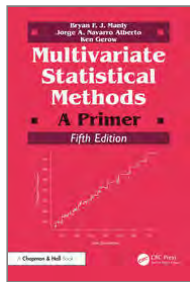
Routledge
April 2022 : 494pp
Pb: 978-0-367-42461-9 : **£52.99**
Hb: 978-0-367-42460-2 : **£185**
eBook: 978-0-367-82427-3

* For full contents and more information, visit: www.routledge.com/9780367424619

5TH EDITION

Multivariate Statistical Methods

A Primer



Bryan F. J. Manly University of Otago, Dunedin, New Zealand, **Jorge A. Navarro Alberto**, **Ken Gerow**

Great starting point for readers looking to become proficient in multivariate statistical methods, but who might not be deeply versed in the language of mathematics. In this edition, we provide readers with conceptual introductions to methods, practical suggestions, new references, and a more extensive collection of R functions and code that will help them to deepen their toolkit of multivariate statistical methods.

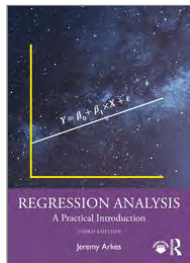
Chapman & Hall
October 2024 : 294pp
Pb: 978-1-032-59197-1 : **£55.99**
Hb: 978-1-032-59200-8 : **£160**
eBook: 978-1-003-45348-2

* For full contents and more information, visit: www.routledge.com/9781032591971

3RD EDITION

Regression Analysis

A Practical Introduction



Jeremy Arkes

This thoroughly practical and engaging textbook conveys the skills needed to responsibly develop, conduct, scrutinize, and interpret statistical analyses without requiring high-level math. This third edition features coverage of the Generalized AutoRegressive Conditional Heteroskedasticity (GARCH) model, Time Series Cross Section models and Multi-level (Hierarchical) models, and has been updated throughout to include more examples. It is ideal for undergraduate and postgraduate students learning quantitative methods in the social sciences, business, medicine, and data analytics. It will also appeal to researchers and academics looking to better understand regressions.

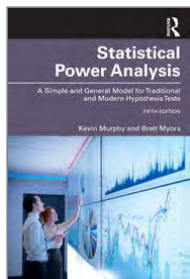
Routledge
September 2025 : 524pp
Pb: 978-1-041-00259-8 : **£41.99**
Hb: 978-1-041-00260-4 : **£130**
eBook: 978-1-003-60894-3

* For full contents and more information, visit: www.routledge.com/9781041002598

5TH EDITION

Statistical Power Analysis

A Simple and General Model for Traditional and Modern Hypothesis Tests, Fifth Edition



Brett Myors Griffith University, Australia, **Kevin R. Murphy** University of Limerick, Ireland

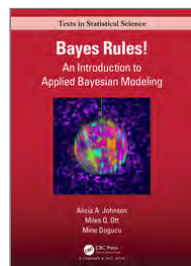
Statistical Power Analysis explains the key concepts in statistical power analysis and illustrates their application in both tests of traditional null hypotheses. It provides readers with the tools to understand and perform power analyses for virtually all the statistical methods used in the social and behavioral sciences. This edition includes new material and new power software. The programs used for power analysis in this book have been re-written in R, a language that is widely used and freely available. Statistical Power Analysis helps readers design studies, diagnose existing studies, and understand why hypothesis tests come out the way they do.

Routledge
March 2023 : 224pp
Pb: 978-1-032-28300-5 : **£57.99**
Hb: 978-1-032-28301-2 : **£140**
eBook: 978-1-003-29622-5

* For full contents and more information, visit: www.routledge.com/9781032283005

Bayes Rules!

An Introduction to Applied Bayesian Modeling



Alicia A. Johnson, **Miles Q. Ott** Smith College,
Northampton, MA 01063, **Mine Dogucu** Denison
university, OH, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

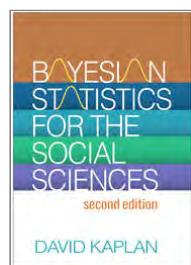
An engaging, sophisticated, and fun introduction to the field of Bayesian Statistics, *Bayes Rules! An Introduction to Bayesian Modeling with R* brings the power of modern Bayesian thinking, modeling, and computing to a broad audience. In particular, it is an ideal resource for advanced undergraduate Statistics students and practitioners with comparable experience. *Bayes Rules!* empowers readers to weave Bayesian approaches into their everyday practice.

Chapman & Hall
March 2022 : 544pp
Pb: 978-0-367-25539-8 : **£69.99**
Hb: 978-1-032-19159-1 : **£195**
eBook: 978-0-429-28834-0

* For full contents and more information, visit: www.routledge.com/9780367255398

2ND EDITION

Bayesian Statistics for the Social Sciences, Second Edition



David Kaplan University of Wisconsin–Madison, United States

This book equips social science researchers to apply the latest Bayesian methodologies to their data analysis problems. The second edition includes new chapters on model uncertainty, Bayesian variable selection and sparsity, and Bayesian workflow for statistical modeling, and emphasizes use of the RStan software package. Topics include frequentist and epistemic probability, prior distributions, Hamiltonian Monte Carlo, Bayesian linear regression and generalized linear models, model evaluation and comparison, multilevel modeling, missing data, and more. The book includes worked-through examples with annotated RStan code, and features a helpful companion website.

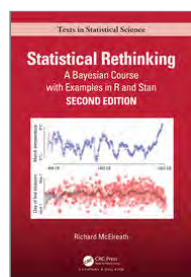
Guilford Press
December 2023 : 250pp
Hb: 978-1-462-55354-9 : **£62.99**

* For full contents and more information, visit: www.routledge.com/9781462553549

2ND EDITION

Statistical Rethinking

A Bayesian Course with Examples in R and STAN



Richard McElreath Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

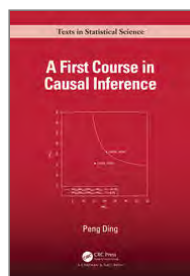
Series: Chapman & Hall/CRC Texts in Statistical Science

The very popular *Statistical Rethinking: A Bayesian Course with Examples in R and Stan*, Second Edition builds readers' knowledge of and confidence in statistical modeling. Reflecting the need for even minor programming in today's model-based statistics, the book pushes readers to perform step-by-step calculations that are usually automated. This unique computational approach ensures that readers understand enough of the details to make reasonable choices and interpretations in their own modeling work.

Chapman & Hall
March 2020 : 612pp
Hb: 978-0-367-13991-9 : **£86.99**
eBook: 978-0-429-02960-8

* For full contents and more information, visit: www.routledge.com/9780367139919

A First Course in Causal Inference



Peng Ding University of California Berkeley, U.S.A

Series: Chapman & Hall/CRC Texts in Statistical Science

This textbook, based on the author's course on causal inference at UC Berkeley taught over the past seven years, only requires basic knowledge of probability theory, statistical inference, and linear and logistic regressions. It assumes minimal knowledge of causal inference, and reviews basic probability and statistics in the appendix. It covers causal inference from a statistical perspective and includes examples and applications from biostatistics and econometrics. This book is suitable for an advanced undergraduate or graduate-level course on causal inference, or postgraduate and PhD-level course in statistics and biostatistics departments.

Chapman & Hall
July 2024 : 448pp
Hb: 978-1-032-75862-6 : **£68.99**
eBook: 978-1-003-48408-0

* For full contents and more information, visit: www.routledge.com/9781032758626

2ND EDITION

The Effect

An Introduction to Research Design and Causality



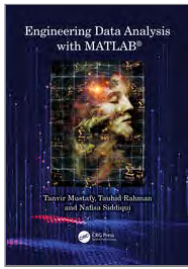
Nick Huntington-Klein

This book is about research design, specifically concerning research that uses non-experimental data to figure out whether one thing causes another. It introduces the concept of identification thoroughly and clearly and discusses it as a process of trying to isolate variation that has a causal interpretation. Concepts are demonstrated with a heavy emphasis on graphical intuition and the question of what we do to data. When we "add a control variable" what does that actually do? The second edition features a new chapter on partial identification, updated materials, methods, and writing throughout, and additional materials for help navigating the book or in using the book in teaching.

Chapman & Hall
July 2025 : 686pp
Pb: 978-1-032-58022-7 : **£41.99**
Hb: 978-1-032-58194-1 : **£130**
eBook: 978-1-003-44896-9

* For full contents and more information, visit: www.routledge.com/9781032580227

Engineering Data Analysis with MATLAB®



Tanvir Mustafy Military Inst. of Science and Tech, BD,
Tauhid Rahman Military Inst. of Science and Tech, BD,
Nafisa Siddiqui Military Inst. of Science and Tech, BD

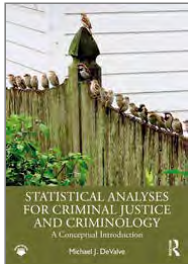
This book provides a concise overview of a variety of techniques for analyzing statistical, scientific, and financial data, using MATLAB® to integrate several approaches to data analysis and statistics. Chapters offer a broad review of computational data analysis, illustrated with many examples and applications. Each chapter combines theoretical concepts with practical MATLAB® applications and includes practice exercises, ensuring a comprehensive understanding of the material. With coverage of both basic and more complex ideas in applied statistics, the book has broad appeal for undergraduate students up to practicing engineers.

CRC Press
 December 2024 : 902pp
 Pb: 978-1-032-50771-2 : **£75.99**
 Hb: 978-1-032-50658-6 : **£155**
 eBook: 978-1-003-39958-2

* For full contents and more information, visit: www.routledge.com/9781032507712

Statistical Analyses for Criminal Justice and Criminology

A Conceptual Introduction



Michael J. DeValen

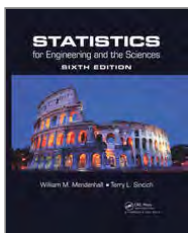
This book is a how-to guide for statistical analyses designed for undergraduates and others new to the subject. Written in an easy-going and clear style, the book uses policing data to illustrate concepts and includes a short narrative at the beginning of each chapter to engage readers. Easily identified Main Take-Aways and Key Terms features aid student understanding. Designed to combat the fear of mathematics and statistics often held by students in the social sciences, plain verbiage, multiple examples, and clear demonstrations combine to achieve the actualization and proper contextualized use of univariate and bivariate statistics.

Routledge
 June 2024 : 194pp
 Pb: 978-1-032-63854-6 : **£39.99**
 Hb: 978-1-032-63858-4 : **£155**
 eBook: 978-1-032-63859-1

* For full contents and more information, visit: www.routledge.com/9781032638546

6TH EDITION

Statistics for Engineering and the Sciences



William M. Mendenhall, **Terry L. Sincich**

Designed for a two-semester introductory course, this popular text continues to teach students the basic concepts of data description and statistical inference as well as the statistical methods necessary for real-world applications. Along with updated and reorganized material, this sixth edition includes many new and updated exercises based on contemporary engineering and scientific-related studies and real data. It also offers more statistical software printouts and corresponding instructions for use that reflect the latest versions of the SAS, SPSS, and MINITAB software.

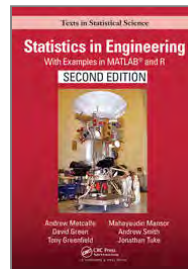
Chapman & Hall
 December 2015 : 1182pp
 Hb: 978-1-498-72885-0 : **£94.99**
 eBook: 978-0-429-07627-5

* For full contents and more information, visit: www.routledge.com/9781498728850

2ND EDITION

Statistics in Engineering

With Examples in MATLAB® and R, Second Edition



Andrew Metcalfe, **David Green**, **Tony Greenfield**,
Mayhayaudin Mansor, **Andrew Smith**, **Jonathan Tuke**

This is a textbook for an undergraduate course in statistics for engineers with a minimal calculus prerequisite. The second edition differs from existing books in three main aspects: it is the only introductory statistics textbook written for engineers that uses R throughout the text, there is an emphasis on statistical methods most relevant to engineers that are illustrated with practical applications, and there is an emphasis on random number generation and simulation, all very useful features in engineering.

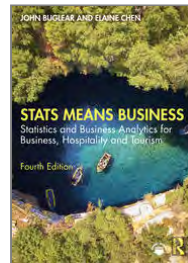
Chapman & Hall
 June 2020 : 810pp
 Pb: 978-0-367-57062-0 : **£51.99**
 Hb: 978-1-439-89547-4 : **£96.99**
 eBook: 978-1-315-11723-2

* For full contents and more information, visit: www.routledge.com/9780367570620

4TH EDITION

Stats Means Business

Statistics and Business Analytics for Business, Hospitality and Tourism



John Buglear, **Elaine Chen**

Stats Means Business is an introductory and comprehensive textbook written especially for Hospitality, Business and Tourism students who take statistics or quantitative methods modules. By minimising technical language, providing clear definitions of key terms and giving emphasis to interpretation rather than technique, this book caters to beginners in the subject. Stats Means Business is an ideal, accessible and practical introduction to statistics and quantitative research methods for Hospitality, Business and Tourism students.

Routledge
 April 2025 : 456pp
 Pb: 978-1-032-75021-7 : **£60.99**
 Hb: 978-1-032-75018-7 : **£155**
 eBook: 978-1-003-47202-5

* For full contents and more information, visit: www.routledge.com/9781032750217

A Tour of Data Science

Learn R and Python in Parallel



Nailong Zhang

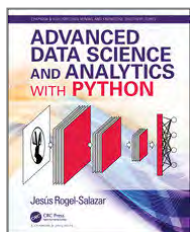
Series: Chapman & Hall/CRC Data Science Series

This book covers the fundamentals of data science, including programming, statistics, optimization, and machine learning in a single and short book. It does not cover everything, but instead, teaches the key concepts and topics. It also covers two of the most popular programming languages used in Data Science, R and Python, in one source.

Chapman & Hall
November 2020 : 216pp
Pb: 978-0-367-89586-0 : **£52.99**
Hb: 978-0-367-89706-2 : **£145**
eBook: 978-1-003-02064-6

* For full contents and more information, visit: www.routledge.com/9780367895860

Advanced Data Science and Analytics with Python



Jesús Rogel-Salazar Imperial College London, UK

Series: Chapman & Hall/CRC Data Mining and Knowledge Discovery Series

The book is intended for practitioners in data science and data analytics in both academic and business environments. It aims to present the reader with concepts in data science and analytics that were deemed to be more advanced or simply out of scope in the author's first book, and are used in data analytics using tools developed in Python such as SciKit Learn, Pandas, Numpy, etc. The use of Python is of particular benefit given its recent popularity in the data science community. The book is therefore a reference to be used by seasoned programmers and newcomers alike and the key benefit is the practical approach presented throughout the book.

Chapman & Hall
May 2020 : 424pp
Pb: 978-1-138-31506-8 : **£51.99**
Hb: 978-0-429-44661-0 : **£115**
eBook: 978-0-429-44664-1

* For full contents and more information, visit: www.routledge.com/9781138315068

2ND EDITION

Big Data and Social Science

Data Science Methods and Tools for Research and Practice



Edited by **Ian Foster** University of Chicago, Illinois, USA, **Rayid Ghani** University of Chicago, Illinois, USA, **Ron S. Jarmin**, **Frauke Kreuter** University of Mannheim, Germany; and Institute for Employment Research, Germany, **Julia Lane** New York University; American Institutes for Research, USA

Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

This classroom-tested book fills a major gap in graduate- and professional-level data science and social science education. It can be used to train a new generation of social data scientists to tackle real-world problems and improve the skills and competencies of applied social scientists and public policy practitioners. It empowers you to use the massive and rapidly growing amounts of available data to interpret economic and social activities in a scientific and rigorous manner.

Chapman & Hall
November 2020 : 412pp
Pb: 978-0-367-56859-7 : **£60.99**
Hb: 978-0-367-34187-9 : **£155**
eBook: 978-0-429-32438-3

* For full contents and more information, visit: www.routledge.com/9780367568597

2ND EDITION

Data Science and Analytics with Python



Jesús Rogel-Salazar Imperial College London, UK

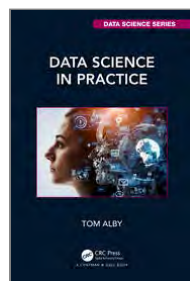
Series: Chapman & Hall/CRC Data Mining and Knowledge Discovery Series

Since the first edition, we have witnessed an unprecedented explosion in the interest and development within the fields of Artificial Intelligence and Machine Learning. This surge has led to the widespread adoption of the book, not just among business practitioners, but also by universities as a key textbook. Designed as a practical companion for data analysts and budding data scientists, this book assumes a working knowledge of programming and statistical modelling but aims to guide readers deeper into the wonders of data analytics and machine learning. Whether revisiting fundamental concepts or diving into new, advanced topics, this book offers something valuable for every reader.

Chapman & Hall
June 2025 : 514pp
Pb: 978-1-032-77249-3 : **£51.99**
Hb: 978-1-032-77252-3 : **£140**
eBook: 978-1-003-48206-2

* For full contents and more information, visit: www.routledge.com/9781032772493

Data Science in Practice



Tom Alby

Series: Chapman & Hall/CRC Data Science Series

Data Science in Practice is the ideal introduction to data science. With or without math skills: Here you get the all-round view that you need for your projects. This book describes how to properly question data, to unearth the treasure that data can be. As technology alone is not enough, this book also deals with problems in project implementation, illuminates various fields of application and addresses ethical aspects. Data Science in Practice includes many examples, notes on errors, decision-making aids and other practical tips, and is ideal as a complementary text for university students, or as a useful learning tool for those starting more data-related roles.

Chapman & Hall
September 2023 : 318pp
Pb: 978-1-032-50526-8 : **£61.99**
Hb: 978-1-032-50524-4 : **£160**
eBook: 978-1-003-42636-3

* For full contents and more information, visit: www.routledge.com/9781032505268

Data Science

A First Introduction



Tiffany Timbers University of British Columbia, **Trevor Campbell**, **Melissa Lee**

Series: Chapman & Hall/CRC Data Science Series

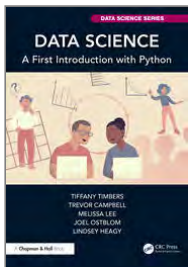
Data Science: A First Introduction focuses on using the R programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that are clear, reproducible, and shareable, and includes coverage of the basics of version control. All source code is available online, demonstrating the use of good reproducible project workflows.

Chapman & Hall
July 2022 : 456pp
Pb: 978-0-367-52468-5 : **£55.99**
Hb: 978-0-367-53217-8 : **£140**
eBook: 978-1-003-08097-8

* For full contents and more information, visit: www.routledge.com/9780367524685

Data Science

A First Introduction with Python



Tiffany Timbers University of British Columbia, **Trevor Campbell**, **Melissa Lee** Assistant Professor, Uni of British Columbia, Canada, **Joel Ostblom**, **Lindsey Heagy** Professor, Uni of British Columbia, Canada

Series: Chapman & Hall/CRC Data Science Series

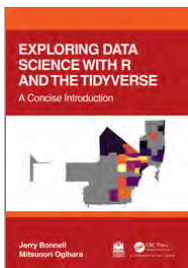
This book focuses on using the Python programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that are clear, reproducible, and shareable, and includes coverage of the basics of version control. All source code is available online, demonstrating the use of good reproducible project workflows. The book is designed for learners from all disciplines with minimal prior knowledge of mathematics and programming. The authors have honed the material through years of experience teaching.

Chapman & Hall
August 2024 : 452pp
Pb: 978-1-032-57223-9 : **£61.99**
Hb: 978-1-032-57219-2 : **£160**
eBook: 978-1-003-43839-7

* For full contents and more information, visit: www.routledge.com/9781032572239

Exploring Data Science with R and the Tidyverse

A Concise Introduction



Jerry Bonnell, **Mitsunori Ogihara** University of Miami, Coral Gables, Florida, USA

This book introduces the reader to data science using R and the tidyverse. No prerequisite knowledge is needed in college-level programming or mathematics (e.g., calculus or statistics). The book is self-contained so readers can immediately begin building data science workflows without needing to reference extensive amounts of external resources for onboarding. The contents are targeted for undergraduate students but are equally applicable to students at the graduate level and beyond. The book develops concepts using many real-world examples to motivate the reader. An exercise set is made available and designed for compatibility with automated grading tools for instructor use.

Chapman & Hall
August 2023 : 492pp
Pb: 978-1-032-34170-5 : **£80.99**
Hb: 978-1-032-32950-5 : **£205**
eBook: 978-1-003-32084-5

* For full contents and more information, visit: www.routledge.com/9781032341705

Foundations of Data Science with Python



John M. Shea

Series: Chapman & Hall/CRC The Python Series

Foundations of Data Science with Python introduces readers to the fundamentals of data science, including data manipulation and visualization, probability, statistics, and dimensionality reduction. This book is targeted toward engineers and scientists, but it should be readily understandable to anyone who knows basic calculus and the essentials of computer programming. This book can be used as an undergraduate textbook for an Introduction to Data Science course or to provide a more contemporary approach in courses like Engineering Statistics. It is also intended to be accessible to practicing engineers and scientists.

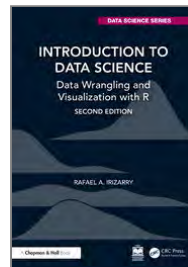
Chapman & Hall
February 2024 : 496pp
Pb: 978-1-032-35042-4 : **£77.99**
Hb: 978-1-032-34674-8 : **£200**
eBook: 978-1-003-32499-7

* For full contents and more information, visit: www.routledge.com/9781032350424

2ND EDITION

Introduction to Data Science

Data Wrangling and Visualization with R



Rafael A. Irizarry

Series: Chapman & Hall/CRC Data Science Series

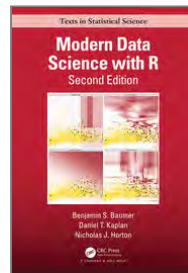
Thoroughly revised and updated, this is the first book of the second edition of Introduction to Data Science: Data Wrangling and Visualization with R. It introduces skills that can help you tackle real-world data analysis challenges. No previous knowledge of R is necessary, although some experience with programming may be helpful. If you read and understand all the chapters and complete all the exercises in this book, and understand statistical concepts, you will be well-positioned to perform basic data analysis tasks and you will be prepared to learn the more advanced concepts and skills needed to become an expert.

Chapman & Hall
August 2024 : 346pp
Hb: 978-1-032-11655-6 : **£62.99**
eBook: 978-1-003-22092-3

* For full contents and more information, visit: www.routledge.com/9781032116556

2ND EDITION

Modern Data Science with R



Benjamin S. Baumer Smith College, Northampton, MA, **Daniel T. Kaplan** Smith College, Northampton, MA, **Nicholas J. Horton** Amherst College, Amherst, MA

Series: Chapman & Hall/CRC Texts in Statistical Science

New data technologies and database systems facilitate scraping data and merging information from different sources and formats and restructuring data into a form suitable for analysis. State-of-the-art workflow and tools foster well-documented and reproducible analysis. Modern statistical methods allow the analyst to fit and assess models as well as to undertake supervised or unsupervised learning to extract information. Contemporary data science requires tight integration of these statistics, computing, data skills, mathematics, and communication. The text is intended for readers with some background in statistics and modest prior experience in scripting and programming.

Chapman & Hall
April 2021 : 650pp
Hb: 978-0-367-19149-8 : **£94.99**
eBook: 978-0-429-20071-7

* For full contents and more information, visit: www.routledge.com/9780367191498

Practitioner's Guide to Data Science



Hui Lin, **Ming Li**

Series: Chapman & Hall/CRC Data Science Series

This book aims to increase the visibility of data science in real-world, which differs from what you learn from a typical textbook. Many aspects of day-to-day data science work are almost absent from conventional statistics, machine learning, and data science curriculum. This book is for readers who want to explore possible career paths and eventually become data scientists. This book comprehensively introduces various data science fields, and programming skills in data science projects. Traditional data-related practitioners such as statisticians, business analysts, and data analysts will find this book helpful in expanding their skills for future data science careers.

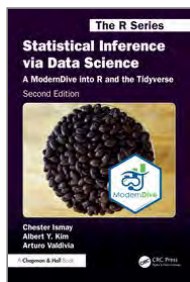
Chapman & Hall
May 2023 : 402pp
Pb: 978-0-815-35439-0 : **£57.99**
Hb: 978-0-815-35447-5 : **£155**
eBook: 978-1-351-13291-6

* For full contents and more information, visit: www.routledge.com/9780815354390

2ND EDITION

Statistical Inference via Data Science

A ModernDive into R and the Tidyverse



Chester Ismay DataCamp, **Albert Y. Kim**, **Arturo Valdivia**

Series: Chapman & Hall/CRC The R Series

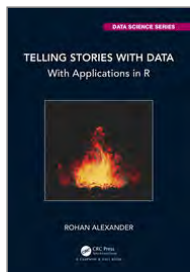
Offers a comprehensive guide to learning statistical inference with data science tools widely used in industry, academia, and government. Ideal for those new to statistics or looking to deepen their knowledge, this edition provides a clear entry point into data science and modern statistical methods.

Chapman & Hall
May 2025 : 490pp
Pb: 978-1-032-70837-9 : **£68.99**
Hb: 978-1-032-72451-5 : **£170**
eBook: 978-1-032-72454-6

* For full contents and more information, visit: www.routledge.com/9781032708379

Telling Stories with Data

With Applications in R



Rohan Alexander

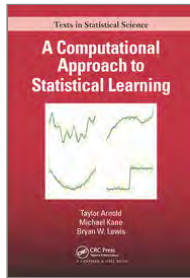
Series: Chapman & Hall/CRC Data Science Series

The book equips students with the end-to-end skills needed to do data science. That means gathering, cleaning, preparing, and sharing data, then using statistical models to analyse data, writing about the results of those models, drawing conclusions from them, and finally, using the cloud to put a model into production, all done in a reproducible way. This book will achieve the goals by working through extensive case studies in terms of gathering and preparing data, and integrating ethics throughout. It is specifically designed around teaching how to write about the data and models, so aspects such as writing are explicitly covered.

Chapman & Hall
July 2023 : 622pp
Hb: 978-1-032-13477-2 : **£83.99**
eBook: 978-1-003-22940-7

* For full contents and more information, visit: www.routledge.com/9781032134772

A Computational Approach to Statistical Learning



Taylor Arnold , Michael Kane , Bryan W. Lewis

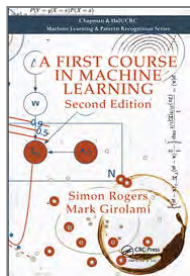
This book synthesizes those techniques from numerical analysis, algorithms, data structures, and optimization theory most commonly employed in statistics and machine learning. We provide concrete applications of these methods by giving complete reference implementations for a large set of the most commonly used statistical estimators. The goal is to provide a self-contained textbook explaining the inner algorithmic workings of statistical estimators.

Chapman & Hall
June 2020 : 374pp
Pb: 978-0-367-57061-3 : **£51.99**
Hb: 978-1-138-04637-5 : **£86.99**
eBook: 978-1-315-17140-1

* For full contents and more information, visit: www.routledge.com/9780367570613

2ND EDITION

A First Course in Machine Learning



Simon Rogers , Mark Girolami

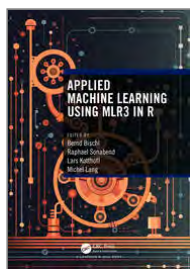
Series: Chapman & Hall/CRC Machine Learning & Pattern Recognition

The new edition of this popular, undergraduate textbook has been revised and updated to reflect current growth areas in Machine Learning. The new edition includes three new chapters with more detailed discussion of Markov Chain Monte Carlo techniques, Classification and Regression with Gaussian Processes, and Dirichlet Process models. Previous chapters have also been updated to reflect new developments in Machine Learning, and correct any previous errors in the text.

Chapman & Hall
June 2020 : 428pp
Pb: 978-0-367-57464-2 : **£45.99**
Hb: 978-1-498-73848-4 : **£72.99**
eBook: 978-1-315-38215-9

* For full contents and more information, visit: www.routledge.com/9780367574642

Applied Machine Learning Using mlr3 in R



Edited by **Bernd Bischl , Raphael Sonabend , Lars Kotthoff , Michel Lang**

mlr3 is an award-winning ecosystem of R packages that have been developed to enable state-of-the-art machine learning capabilities in R. This book gives an overview of flexible and robust machine learning methods, with an emphasis on how to implement them using mlr3 in R. It covers many key topics, including basic machine learning tasks, such as building and evaluating a predictive model; hyperparameter tuning of machine learning approaches to obtain peak performance; building machine learning pipelines that perform complex operations

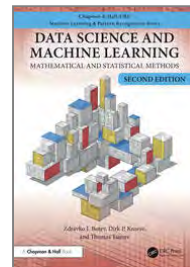
Chapman & Hall
January 2024 : 356pp
Pb: 978-1-032-50754-5 : **£67.99**
Hb: 978-1-032-51567-0 : **£175**
eBook: 978-1-003-40284-8

* For full contents and more information, visit: www.routledge.com/9781032507545

2ND EDITION

Data Science and Machine Learning

Mathematical and Statistical Methods, Second Edition



Zdravko Botev University of New South Wales, **Dirk P. Kroese** , **Thomas Taimre**

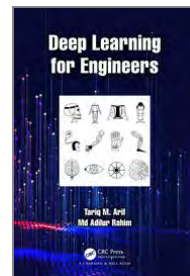
Series: Chapman & Hall/CRC Machine Learning & Pattern Recognition

The purpose of Data Science and Machine Learning: Mathematical and Statistical Methods is to provide an accessible, yet comprehensive textbook intended for students interested in gaining a better understanding of the mathematics and statistics that underpin the rich variety of ideas and machine learning algorithms in data science. This expanded second edition provides updates across key areas of statistical learning.

Chapman & Hall
November 2025 : 758pp
Hb: 978-1-032-48868-4 : **£78.99**
eBook: 978-1-003-39117-3

* For full contents and more information, visit: www.routledge.com/9781032488684

Deep Learning for Engineers



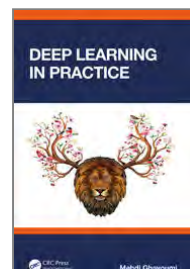
Tariq M. Arif Weber State University Ogden, UT, **Md Adilur Rahim** Louisiana State University Baton Rouge, LA

As a comprehensive guideline for applying deep learning models in practical settings, this book features an easy-to-understand coding structure using Python and PyTorch with an in-depth explanation of four typical deep learning case studies on image classification, object detection, semantic segmentation, and image captioning. Science and engineering students, academic researchers, and industry professionals will find the contents useful.

Chapman & Hall
February 2024 : 170pp
Pb: 978-1-032-51581-6 : **£52.99**
Hb: 978-1-032-50473-5 : **£94.99**
eBook: 978-1-003-40292-3

* For full contents and more information, visit: www.routledge.com/9781032515816

Deep Learning in Practice



Mehdi Ghayoumi University of San Diego

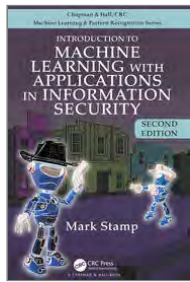
Deep Learning in Practice helps you learn how to develop and optimize a model for your projects using Deep Learning (DL) methods and architectures. This book is useful for undergraduate and graduate students, as well as practitioners in industry and academia. It will serve as a useful reference for learning deep learning fundamentals and implementing a deep learning model for any project, step by step.

Chapman & Hall
June 2025 : 218pp
Pb: 978-0-367-45658-0 : **£44.99**
Hb: 978-0-367-45862-1 : **£82.99**
eBook: 978-1-003-02581-8

* For full contents and more information, visit: www.routledge.com/9780367456580

2ND EDITION

Introduction to Machine Learning with Applications in Information Security



Mark Stamp Department of Computer Science, San Jose State University

Series: Chapman & Hall/CRC Machine Learning & Pattern Recognition

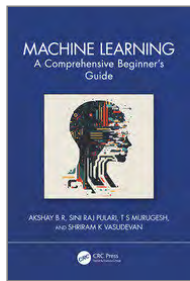
Introduction to Machine Learning with Applications in Information Security, Second Edition provides a classroom-tested introduction to a wide variety of machine learning and deep learning algorithms and techniques, reinforced via realistic applications. The book is accessible and doesn't prove theorems, or dwell on mathematical theory. The goal is to present topics at an intuitive level, with just enough detail to clarify the underlying concepts. The applications presented serve to demystify the topics by illustrating the use of various learning techniques in straightforward scenarios.

Chapman & Hall
December 2024 : 548pp
Pb: 978-1-032-20717-9 : **£47.99**
Hb: 978-1-032-20492-5 : **£70.99**
eBook: 978-1-003-26487-3

* For full contents and more information, visit: www.routledge.com/9781032207179

Machine Learning

A Comprehensive Beginner's Guide



Akshay B R, **Sini Raj Pulari**, **T.S. Murugesh Govt. College of Engineering Srirangam, Tamil Nadu**, **Shriram K. Vasudevan Intel India Pvt Ltd., Tamil Nadu**

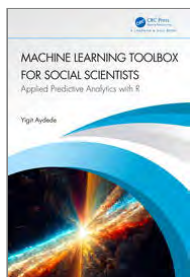
Machine learning is a dynamic and rapidly expanding field focused on creating algorithms that empower computers to recognize patterns, make predictions, and continually enhance performance. Dive into this fascinating field to master machine learning concepts with the step-by-step approach outlined in this book and contribute to its exciting future.

CRC Press
July 2024 : 258pp
Pb: 978-1-032-67666-1 : **£50.99**
Hb: 978-1-032-67665-4 : **£135**
eBook: 978-1-032-67668-5

* For full contents and more information, visit: www.routledge.com/9781032676661

Machine Learning Toolbox for Social Scientists

Applied Predictive Analytics with R



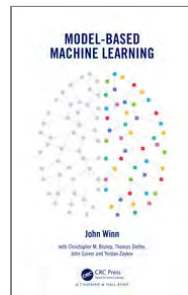
Yigit Aydede Professor, Saint Mary's University

Machine Learning Toolbox for Social Scientists covers predictive methods with complementary statistical "tools" that make it mostly self-contained. The inferential statistics is the traditional framework for most data analytics courses in social science and business fields, especially in Economics and Finance. The new organization that this book offers goes beyond standard machine learning code applications, providing intuitive backgrounds for new predictive methods that social science and business students can follow. The modern statistical methods the book provides allows it to be effectively used in teaching in the social science and business fields.

Chapman & Hall
September 2023 : 600pp
Hb: 978-1-032-46395-7 : **£86.99**
eBook: 978-1-003-38150-1

* For full contents and more information, visit: www.routledge.com/9781032463957

Model-Based Machine Learning



John Winn Microsoft Research Ltd., Cambridge, United Kingdom

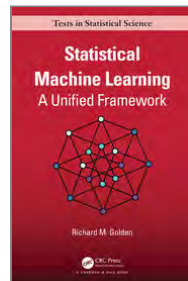
Machine learning is being applied to a growing variety of problems in a variety of domains. A fundamental challenge when using machine learning is connecting the abstract mathematics of a machine learning technique to real world problems. This book tackles this through model-based machine learning, focusing on understanding the assumptions encoded in a machine learning system and their impact on the behaviour of the system. The key ideas of model-based machine learning are introduced through case studies involving real-world applications. It aims not just to explain machine learning methods, but also how to create, debug, and evolve them to solve a problem.

Chapman & Hall
October 2023 : 468pp
Hb: 978-1-498-75681-5 : **£75.99**
eBook: 978-0-429-19268-5

* For full contents and more information, visit: www.routledge.com/9781498756815

Statistical Machine Learning

A Unified Framework



Richard Golden

Series: Chapman & Hall/CRC Texts in Statistical Science

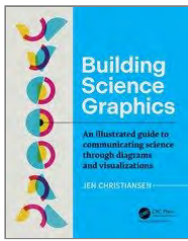
For advanced undergraduate students, graduate students, and professional. Presents a wide range of popular, disparate, and diverse machine learning algorithms within a unified theoretical framework, characterized by a collection of carefully chosen theorems from the fields of nonlinear optimization theory and mathematical statistics which respectively characterize both asymptotic behavior and generalization performance. The purpose is to teach students how to confidently apply these theorems in practice. The only required mathematical prerequisites are lower-division linear algebra, lower-division calculus, and an upper-division calculus-based course in probability theory.

Chapman & Hall
July 2020 : 524pp
Hb: 978-1-138-48469-6 : **£125**
eBook: 978-1-351-05150-7

* For full contents and more information, visit: www.routledge.com/9781138484696

Building Science Graphics

An Illustrated Guide to Communicating Science through Diagrams and Visualizations



Jen Christiansen

Series: AK Peters Visualization Series

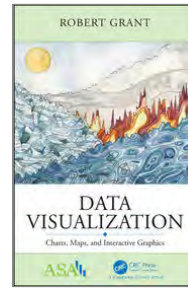
Building Science Graphics is a practical guide for anyone interested in creating science-centric illustrated explanatory diagrams. Starting with a clear introduction to the concept of information graphics and their role in contemporary science communication, it then outlines a process for creating graphics using evidence-based design strategies. The heart of the book is composed of two step-by-step graphical worksheets, designed to help jump-start any new project.

A K Peters/CRC Press
August 2022 : 357pp
Pb: 978-1-032-10674-8 : **£44.99**
Hb: 978-1-032-10940-4 : **£105**
eBook: 978-1-003-21781-7

* For full contents and more information, visit: www.routledge.com/9781032106748

Data Visualization

Charts, Maps, and Interactive Graphics



Robert Grant Kingston University & St George's, University of London

Series: ASA-CRC Series on Statistical Reasoning in Science and Society

This is the age of data. There are more innovations and more opportunities for interesting work with data than ever before, but there is also an overwhelming amount of quantitative information being published every day. Data visualisation has become big business, because communication is the difference between success and failure, no matter how clever the analysis may have been. The ability to visualize data is now a skill in demand across business, government, NGOs and academia. Data Visualization: Charts, Maps, and Interactive Graphics gives an overview of a wide range of techniques and challenges, while staying accessible to anyone interested in working with and understanding data.

Chapman & Hall
December 2018 : 248pp
Pb: 978-1-138-70760-3 : **£24.99**
Hb: 978-1-138-55359-0 : **£89.99**
eBook: 978-1-315-20135-1

* For full contents and more information, visit: www.routledge.com/9781138707603

CHART

Designing Creative Data Visualizations from Charts to Art



Nadieh Bremer

Series: AK Peters Visualization Series

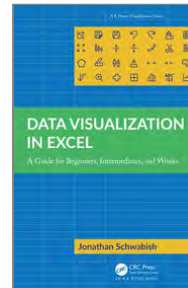
CHART is a guide to unleashing creativity in data visualization. It takes you on a journey along the spectrum from an ordinary chart to data art, packed with ways to bring more creativity into any visualization. It will help to make your visuals more compelling and memorable, long after the numbers have been crunched. The author shares thirteen hands-on, tool-agnostic lessons, each filled with actionable insights and unique perspectives. Between these core lessons, you'll find tips, mini-chapters, and dozens of real-world examples from both client and personal projects. Designed for journalists, data analysts, business professionals, and newcomers alike.

A K Peters/CRC Press
June 2025 : 284pp
Hb: 978-1-032-79775-5 : **£37.99**
eBook: 978-1-003-49780-6

* For full contents and more information, visit: www.routledge.com/9781032797755

Data Visualization in Excel

A Guide for Beginners, Intermediates, and Wonks



Jonathan Schwabish

Series: AK Peters Visualization Series

Data Visualization in Excel closes the gap between what people think Excel can do and what they can achieve in the tool. Over the past few years, recognition of the importance of effectively visualizing data has led to an explosion data analysis and visualization software tools. But for many people, Microsoft Excel continues to be the workhorse for their data visualization needs, not to mention the only tool that many data workers have access to. This book is the perfect guide for anyone who wants to create better, more effective, and more engaging data visualizations.

A K Peters/CRC Press
May 2023 : 400pp
Pb: 978-1-032-34326-6 : **£26.99**
Hb: 978-1-032-34328-0 : **£81.99**
eBook: 978-1-032-48782-3 : **£22.99**

* For full contents and more information, visit: www.routledge.com/9781032343266

Data Sketches

A journey of imagination, exploration, and beautiful data visualizations



Nadieh Bremer, Shirley Wu

Series: AK Peters Visualization Series

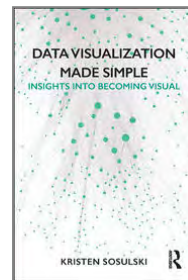
In Data Sketches, Nadieh Bremer and Shirley Wu document the creative and collaborative process behind 24 unique data visualization projects, spanning different topics, technologies, and forms. Features: Technical write-ups with beginner-friendly explanations of core concepts; Practical lessons on data and design challenges; Full-color; Interview with Tamara Munzner; Foreword by Alberto Cairo. This book is perfect for anyone interested or working in data visualization and information design, especially those who want to take their work to the next level and are inspired by unique and compelling data-driven storytelling.

A K Peters/CRC Press
February 2021 : 428pp
Pb: 978-0-367-00008-0 : **£41.99**
Hb: 978-0-367-00012-7 : **£115**
eBook: 978-0-429-44501-9

* For full contents and more information, visit: www.routledge.com/9780367000080

Data Visualization Made Simple

Insights into Becoming Visual



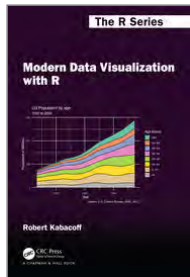
Kristen Sosulski New York University, USA

Data Visualization Made Simple is a practical guide to the fundamentals, strategies, and real-world cases for data visualization, an essential skill required in today's information-rich world. With foundations rooted in statistics, psychology, and computer science, data visualization offers practitioners in almost every field a coherent way to share findings from original research, big data, learning analytics, and more. Both novices and seasoned designers in education, business, and other areas can use this book's effective, linear process to develop data visualization literacy and promote exploratory, inquiry-based approaches to visualization problems.

Routledge
October 2018 : 284pp
Pb: 978-1-138-50391-5 : **£39.99**
Hb: 978-1-138-50387-8 : **£160**
eBook: 978-1-315-14609-6

* For full contents and more information, visit: www.routledge.com/9781138503915

Modern Data Visualization with R



Robert Kabacoff

Series: Chapman & Hall/CRC The R Series

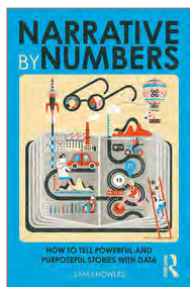
Describes ways that raw and summary data can be turned into visualizations that convey meaningful insights: basic graphs, bar charts, scatter plots, and line charts, and progresses to tree maps, alluvial plots, radar charts, mosaic plots, grouped dot plots, effects plots, multivariate presentations such as corrgrams, biplots, network diagrams.

Chapman & Hall
March 2024 : 271pp
Pb: 978-1-032-28760-7 : **£67.99**
Hb: 978-1-032-28949-6 : **£175**
eBook: 978-1-003-29927-1

* For full contents and more information, visit: www.routledge.com/9781032287607

Narrative by Numbers

How to Tell Powerful and Purposeful Stories with Data



Sam Knowles

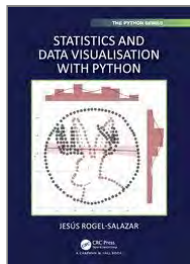
Series: Using Data Better

As jobs in the knowledge economy become increasingly similar, there are two core skills that everyone needs if they are going to thrive and succeed and to make a difference. These are the ability to interrogate and make sense of data, and the ability to use the insights extracted from the data to persuade others to take action. Analytics + storytelling = influence. Humans are hardwired to respond to stories and story structure. There are some simple and effective rules of data-driven storytelling that will help everyone tell more compelling, evidence-based stories, whoever they need to convince to create positive change. Narrative by Numbers shows you how.

Routledge
March 2018 : 176pp
Pb: 978-0-815-35314-0 : **£39.99**
Hb: 978-0-815-35315-7 : **£155**
eBook: 978-1-351-13722-5

* For full contents and more information, visit: www.routledge.com/9780815353140

Statistics and Data Visualisation with Python



Jesús Rogel-Salazar Imperial College London, UK

Series: Chapman & Hall/CRC The Python Series

Statistics and Data Visualisation with Python aims to build statistical knowledge from the ground up by enabling the reader to understand the ideas behind inferential statistics, and begin to formulate hypotheses that form the foundations for the applications and algorithms in statistical analysis, business analytics, machine learning and applied machine learning. This book is intended to serve as a bridge in statistics for graduates and business practitioners interested in using their skills in the area of statistical science, and data science and analytics, acting as a refresher for readers that have taken some courses in statistics, but no not necessarily use it in their daily work.

Chapman & Hall
January 2023 : 554pp
Pb: 978-0-367-74451-9 : **£49.99**
Hb: 978-0-367-74936-1 : **£135**
eBook: 978-1-003-16035-9

* For full contents and more information, visit: www.routledge.com/9780367744519

The Data Storytelling Workbook



Anna Feigenbaum , Aria Alamalhodaie

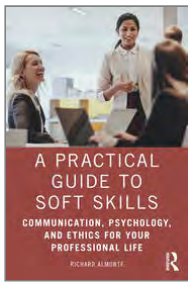
From tracking down information to symbolising human experiences, this book is your guide for telling more effective, empathetic and evidence-based data stories. Wide-ranging and in-depth, this interdisciplinary book is essential for students and researchers in journalism, communication, media, visual arts and cultural studies, as well as any who use data analysis and visualisation within their field.

Routledge
March 2020 : 256pp
Pb: 978-1-138-05211-6 : **£38.99**
Hb: 978-1-138-05210-9 : **£155**
eBook: 978-1-315-16801-2

* For full contents and more information, visit: www.routledge.com/9781138052116

A Practical Guide to Soft Skills

Communication, Psychology, and Ethics for Your Professional Life



Richard Almonte

This accessible text overviews the range of soft skills sought after by employers and provides a practical guide to developing and effectively demonstrating these skills. The book can be used as a supplement for communication, business, and career-oriented courses, and will be of interest to individual students and junior professionals as well as career counsellors, postsecondary instructors across the curriculum, and professionals in human resources and learning and development.

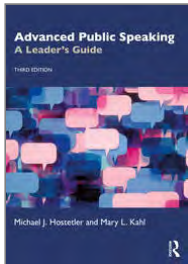
Routledge
December 2021 : 188pp
Pb: 978-1-032-07105-3 : **£47.99**
Hb: 978-1-032-08101-4 : **£160**
eBook: 978-1-003-21294-2

* For full contents and more information, visit: www.routledge.com/9781032071053

3RD EDITION

Advanced Public Speaking

A Leader's Guide



Michael J. Hostetler St. John's University, USA, **Mary L. Kahl**

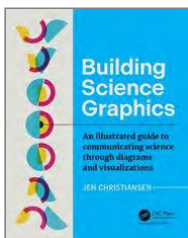
Providing users with the opportunity to increase their speaking abilities across a wide variety of complex and specific contexts, this student-engagement focused and flexible text serves as a core textbook for upper-level undergraduate public speaking courses.

Routledge
March 2024 : 212pp
Pb: 978-1-032-53186-1 : **£66.99**
Hb: 978-1-032-53187-8 : **£150**
eBook: 978-1-003-41078-2

* For full contents and more information, visit: www.routledge.com/9781032531861

Building Science Graphics

An Illustrated Guide to Communicating Science through Diagrams and Visualizations



Jen Christiansen

Series: *AK Peters Visualization Series*

Building Science Graphics is a practical guide for anyone interested in creating science-centric illustrated explanatory diagrams. Starting with a clear introduction to the concept of information graphics and their role in contemporary science communication, it then outlines a process for creating graphics using evidence-based design strategies. The heart of the book is composed of two step-by-step graphical worksheets, designed to help jump-start any new project.

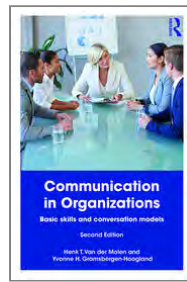
A K Peters/CRC Press
August 2022 : 357pp
Pb: 978-1-032-10674-8 : **£44.99**
Hb: 978-1-032-10940-4 : **£105**
eBook: 978-1-003-21781-7

* For full contents and more information, visit: www.routledge.com/9781032106748

2ND EDITION

Communication in Organizations

Basic Skills and Conversation Models



Henk T. Van der Molen, **Yvonne Gramsbergen-Hoogland**

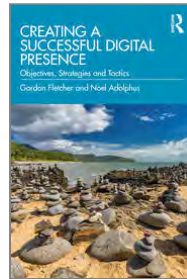
This new edition continues to give clear advice and guidance on communicating in a range of different contexts in the workplace. From handling complaints and breaking bad news to negotiating deals and giving presentations, the book explores the building blocks to effective communication skills, nurturing the leadership qualities required in any organization. Illustrated with concrete examples throughout, the new edition includes a new chapter on career coaching, as well as exercises and ideas for role-play to enable the ideas to come alive. This will be an invaluable book for students of management and business psychology, as well as those taking courses who are already in the workplace.

Routledge
October 2018 : 214pp
Pb: 978-1-138-55212-8 : **£35.99**
Hb: 978-1-138-55210-4 : **£155**
eBook: 978-1-315-14796-3

* For full contents and more information, visit: www.routledge.com/9781138552128

Creating a Successful Digital Presence

Objectives, Strategies and Tactics



Gordon Fletcher, **Noel Adolphus**

Increasingly graduates, and anyone entering employment, need an individual digital presence to showcase themselves to secure their first professional role. It takes an employability approach to encourage readers to recognise and deliver an effective digital presence. By using a strategic and systematic process, this book draws together academic thinking with practical outcomes. It is essential reading for advanced undergraduate and postgraduate students studying any discipline related to the digital world, particularly digital marketing and digital business, entrepreneurship and strategy, as well as those taking employability and personal professional development programmes.

Routledge
July 2021 : 212pp
Pb: 978-0-367-46037-2 : **£41.99**
Hb: 978-0-367-46034-1 : **£155**
eBook: 978-1-003-02658-7

* For full contents and more information, visit: www.routledge.com/9780367460372

English for Business Communication



Mable Chan

Series: *Routledge Applied English Language Introductions*

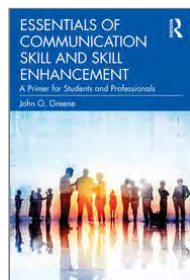
This textbook provides a comprehensive introduction for students and professionals who are studying English for business or workplace communication and covers both spoken and written English. Based on up-to-date research in business communication and incorporating an international range of real-world authentic texts, this book deals with the realities of communication in business today. This book goes beyond the traditional coverage of business English to provide a broad and practical textbook for those studying English in a workplace setting.

Routledge
January 2020 : 246pp
Pb: 978-1-138-48168-8 : **£39.99**
Hb: 978-1-138-48167-1 : **£155**
eBook: 978-1-351-06003-5

* For full contents and more information, visit: www.routledge.com/9781138481688

Essentials of Communication Skill and Skill Enhancement

A Primer for Students and Professionals



John O. Greene

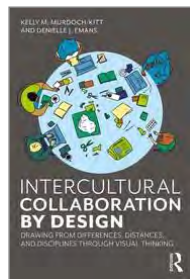
For those who wish to learn or teach the tools of skillful communication, this book provides concrete insight into what makes a person a successful communicator. Predicated on four simple notions—that communication can be done well or poorly, that communication skills matter, that people differ in those skills, and that those skills can be improved—the book helps readers identify and enhance their own communication strengths and address weaknesses, assess the communication skills of others, and coach others to improvement. This book is written for students and professionals in fields such as human resources, sales, training, counseling, customer relations, education, and healthcare.

Routledge
March 2021 : 174pp
Pb: 978-0-367-53428-8 : **£40.99**
Hb: 978-0-367-53838-5 : **£155**
eBook: 978-1-003-08345-0

* For full contents and more information, visit: www.routledge.com/9780367534288

Intercultural Collaboration by Design

Drawing from Differences, Distances, and Disciplines Through Visual Thinking



Kelly Murdoch-Kitt, Denielle Emans

Intercultural Collaboration by Design introduces a framework for collaborating across cultures and learning to use multicultural perspectives to address pressing global issues. With over 30 hands-on activities, this book will be of great interest to diverse teams from a variety of disciplines who want to enhance intercultural learning and co-working. Whether in the classroom or workplace, the activities are appropriate for a variety of collaboration contexts, without a need for background in art or design.

Routledge
January 2020 : 308pp
Pb: 978-0-367-21931-4 : **£35.99**
Hb: 978-0-367-21932-1 : **£140**
eBook: 978-0-429-26882-3

* For full contents and more information, visit: www.routledge.com/9780367219314

Interpersonal Skills for Group Collaboration

Creating High-Performance Teams in the Classroom and the Workplace



Tammy Rice-Bailey Milwaukee School of Engineering, USA, **Felicia Chong**

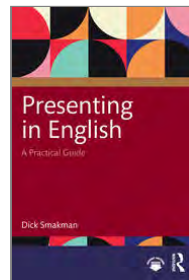
This lively and engaging text introduces readers to the core interpersonal and organizational skills needed to effectively collaborate on group projects in the classroom and the workplace. This guide can be used as a supplementary text for any courses involving group projects, and will also be of interest to professionals in communication, business, and many other fields.

Routledge
February 2023 : 142pp
Pb: 978-1-032-25906-2 : **£38.99**
Hb: 978-1-032-25907-9 : **£140**
eBook: 978-1-003-28557-1

* For full contents and more information, visit: www.routledge.com/9781032259062

Presenting in English

A Practical Guide



Dick Smakman

This practical guide introduces students to the language and other skills needed to deliver a presentation in English. Concise and accessible, the guide will be particularly helpful to learners of English. Accompanied by online support material with recordings, the book is an essential guide to delivering a successful presentation in English.

Routledge
June 2024 : 230pp
Pb: 978-1-032-62532-4 : **£40.99**
Hb: 978-1-032-62787-8 : **£155**
eBook: 978-1-032-62789-2

* For full contents and more information, visit: www.routledge.com/9781032625324

21ST EDITION

Principles of Public Speaking



Dakota Horn Bradley University, USA.

Now in its 21st edition, this introductory public speaking textbook encourages the reader to see public speaking as a way to build community in today's diverse world. This textbook is ideal for general courses on public speaking as well as specialized programs in business, management, political communication, and public affairs.

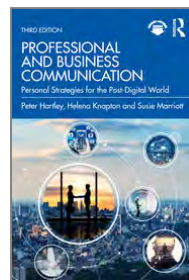
Routledge
April 2024 : 246pp
Pb: 978-1-032-53763-4 : **£105**
Hb: 978-1-032-54052-8 : **£235**
eBook: 978-1-032-72308-2 : **£96.99**

* For full contents and more information, visit: www.routledge.com/9781032537634

3RD EDITION

Professional and Business Communication

Personal Strategies for the Post-Digital World



Peter Hartley Edge Hill University, UK, **Susie Marriott**, **Helena Knapton**

This new edition of Professional and Business Communication is an ideal core communications textbook for students on business, management and professional courses preferring a practice-focused, and colloquial approach that combines accessibility with key theory.

Routledge
May 2023 : 380pp
Pb: 978-1-032-26800-2 : **£38.99**
Hb: 978-1-032-28586-3 : **£155**
eBook: 978-1-003-29755-0

* For full contents and more information, visit: www.routledge.com/9781032268002

7TH EDITION

Skilled Interpersonal Communication

Research, Theory and Practice

**Owen Hargie**

Established as the foremost textbook on communication, the seventh edition of Owen Hargie's *Skilled Interpersonal Communication* is thoroughly revised and updated with the latest research findings, theoretical developments and applications. Written by one of the foremost international experts in the field, this is essential reading for students of interpersonal communication in general, and to qualified personnel and trainees in many fields.

Routledge

November 2021 : 678pp

Pb: 978-1-032-00878-3 : **£55.99**Hb: 978-1-032-02185-0 : **£155**

eBook: 978-1-003-18226-9

* For full contents and more information, visit: www.routledge.com/9781032008783

Virtual Presenting

A Guide to Formats, Production and Authentic Delivery

**Jamie Cohen , Michael Sorrentino**

Responding to the widespread and continued acceleration of virtual working practices in recent years, *Virtual Presenting* provides a clear guide to producing, presenting and broadcasting in a remote context. Unlike traditional studio production where a presenter is surrounded by a crew and cameras, the virtual presenter is often isolated or connected to a remote crew. *Virtual Presenting* explains how to make an authentic connection across great spaces, linked only via Internet. Topics covered include how to build a virtual setup; how to appear on camera; how to appear confident and comfortable; and how to optimize your presentation voice.

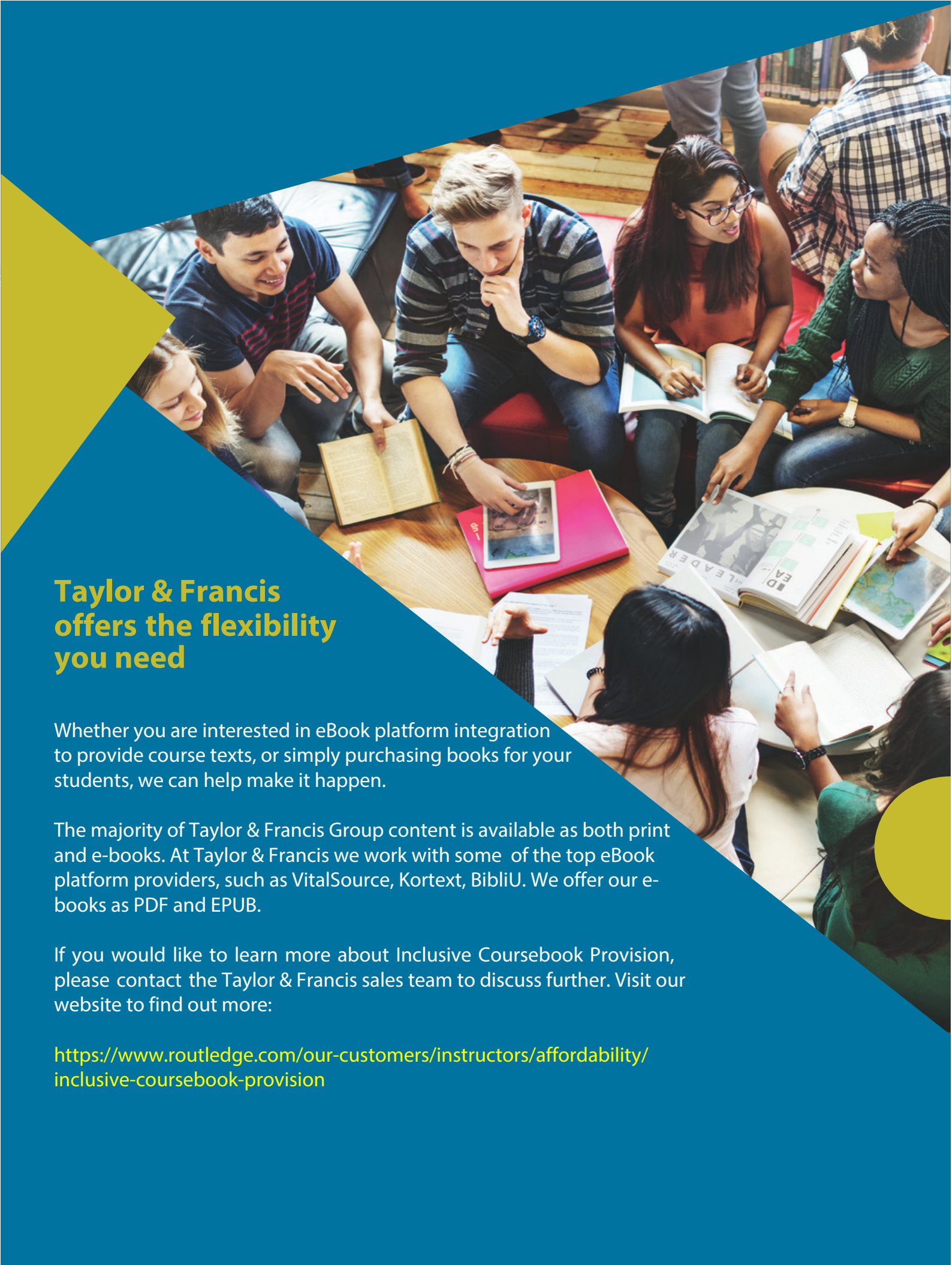
Routledge

March 2023 : 232pp

Pb: 978-1-032-25777-8 : **£38.99**Hb: 978-1-032-27185-9 : **£140**

eBook: 978-1-003-29171-8

* For full contents and more information, visit: www.routledge.com/9781032257778



Taylor & Francis offers the flexibility you need

Whether you are interested in eBook platform integration to provide course texts, or simply purchasing books for your students, we can help make it happen.

The majority of Taylor & Francis Group content is available as both print and e-books. At Taylor & Francis we work with some of the top eBook platform providers, such as VitalSource, Kortext, BibliU. We offer our e-books as PDF and EPUB.

If you would like to learn more about Inclusive Coursebook Provision, please contact the Taylor & Francis sales team to discuss further. Visit our website to find out more:

<https://www.routledge.com/our-customers/instructors/affordability/inclusive-coursebook-provision>

Routledge Resources Online

Offering peer-reviewed articles, overviews and insights, across a wide range of disciplines, Routledge Resources Online are the definitive digital reference products for students and faculty. From presenting short topics and showcasing key entries, to covering important cutting edge and major themes, Routledge Resources Online offer high quality, easily discoverable articles, written by global academic experts in the field.

KEY FEATURES:

- » A diverse range of newly written and peer-reviewed articles, overviews, and insights, across a wide range of disciplines
- » Written, compiled and peer-reviewed by global academic experts in the field
- » Accessible entry points to a variety of content learning types and levels
- » 200+ entries per product
- » Intuitive search and detailed metadata
- » Updated bi-annually to reflect emerging trends as the study evolves
- » Easily accessed and discoverable content





Education
Routledge Resources Online

RRO – Education features brand new, specially commissioned content in 9 key areas: Assessment, Multicultural Education, Social and Emotional Learning, Educational Technology, Special Education, Educational Psychology, Curriculum, Instruction, and Educational Leadership. Led by General Editor Douglas Fisher, RRO – Education is an ever-evolving resource covering core and emerging topics in Education.

Learn more at: <https://taylorfrancis.com/rroe>



Psychology in the Real World
Routledge Resources Online

RRO – Psychology in the Real World features brand new content that support the teaching and learning of Psychology in 7 key areas – law, education, social change, work, sport, relationships and health. Led by General Editor Regan Gurung and a world-leading team of academics, this is an ever-evolving online resource that allows students to explore the field of Psychology and investigate both established and emerging topics.

Learn more at: <https://taylorfrancis.com/rroprw>



Medieval Studies
Routledge Resources Online

RRO – Medieval Studies features a diverse range of peer-reviewed articles, covering geographic and thematic areas across the medieval period. Topics include Culture; Identities; Religion; Powers; Environment, Production, and Exchange; Islamic History and Culture; and Jewish Civilization, as well as an emphasis on Writing History and Methodology. Led by General Editor Professor Hannele Klemettilä, RRO – Medieval Studies is a cutting-edge resource containing both new and revised articles, providing students and researchers with an in-depth understanding of established subjects as well as new insights into the field.

Learn more at: <https://taylorfrancis.com/rroms>



The Renaissance World
Routledge Resources Online

RRO – The Renaissance World features specially-commissioned, peer-reviewed new content that supports the teaching and learning of this historical time period. Covering the 14th to the 18th century, key subject areas include Art and Architecture, Economy and Commerce, Environment, Literature and Drama, Politics and Governance, Religion, and Society. Led by General Editor Kristen Poole and a world-leading team of academics, this resource provides a truly global perspective that can easily be incorporated into the learning environment.

Learn more at: <https://taylorfrancis.com/rrow>



Chinese Studies
Routledge Resources Online

RRO – Chinese Studies features brand new content that supports the teaching and learning of Chinese Studies in 14 key areas including: international relations, history and war, business and economy, law and criminology, medicine and public health, media, science and technology, sociology, literary studies and cultural studies. Led by General Editor Chris Shei and a world-leading team of academics, this is a comprehensive, diverse and inclusive online resource connecting the past, present, and future of China, that allows students to explore the field of Chinese Studies and investigate both established and emerging topics.

Learn more at: <https://taylorfrancis.com/rrocs>



Sport Studies
Routledge Resources Online

RRO – Sport Studies features brand new, expertly commissioned content in the following key areas: business and marketing, events, sport and disability, development, education, history, philosophy, performance, sociology, research, and sport, health and wellbeing. Led by General Editor Vassil Girginov, RRO – Sport Studies is an ever-evolving resource covering core and emerging topics in Sport Studies. With over 200 entries, intuitive search, and detailed metadata, it will provide a high-quality entry into the field of sport studies as well as an authoritative treatment of topical subjects and guide the study of sport through different perspectives.

Learn more at: <https://taylorfrancis.com/rross>



Taylor & Francis Group
an informa business