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Closing date: February 2017
K. Adachi. Osaka University, Osaka, Japan

Matrix-Based Introduction to Multivariate Data Analysis

This book enables readers who may not be familiar with matrices to understand a variety of multivariate analysis procedures in matrix forms. Another feature of the book is that it emphasizes what model underlies a procedure and what objective function is optimized for fitting the model to data. The author believes that the matrix-based learning of such models and objective functions is the fastest way to comprehend multivariate data analysis. [...]
The Basics of Item Response Theory Using R

This graduate-level textbook is a tutorial for item response theory that covers both the basics of item response theory and the use of R for preparing graphical presentation in writings about the theory. Item response theory has become one of the most powerful tools used in test construction, yet one of the barriers to learning and applying it is the considerable amount of sophisticated computational effort required to illustrate even the simplest concepts. This text provides the reader access to the basic concepts of item response theory freed of the tedious underlying calculations. [...] 

Due April 2017
Graduate/Advanced undergraduate textbook
2017. VIII, 176 p. 34 illus. (Statistics for Social and Behavioral Sciences) Hardcover
€ (D) 82.38 | € (A) 84.69 | *CHF 85.00
€ 76.99 | £ 57,99
ISBN 978-3-319-54204-1

Seasonal Adjustment Methods and Real Time Trend-Cycle Estimation

This book explores widely used seasonal adjustment methods and recent developments in real time trend-cycle estimation. It discusses in detail the properties and limitations of X12ARIMA, TRAMO-SEATS and STAMP - the main seasonal adjustment methods used by statistical agencies. Several real-world cases illustrate each method and real data examples can be followed throughout the text. The trend-cycle estimation is presented using nonparametric techniques based on moving averages, linear filters and reproducing kernel Hilbert spaces, taking recent advances into account. [...] 

Available
Monograph
2016. XVI, 283 p. 52 illus., 10 illus. in color. (Statistics for Social and Behavioral Sciences) Hardcover
€ (D) 117.69 | € (A) 120.99 | *CHF 121.00
€ 109.99 | £ 82,00
ISBN 978-3-319-31820-2

Permutation Statistical Methods

This research monograph provides a synthesis of a number of statistical tests and measures, which, at first consideration, appear disjoint and unrelated. Numerous comparisons of permutation and classical statistical methods are presented, and the two methods are compared via probability values and, where appropriate, measures of effect size. Permutation statistical methods, compared to classical statistical methods, do not rely on theoretical distributions, avoid the usual assumptions of normality and homogeneity of variance, and depend only on the data at hand. [...] 

Available
Monograph
2016. XX, 622 p. 180 illus. Hardcover
€ (D) 71.68 | € (A) 73.69 | *CHF 74.00
€ 66,99 | £ 49,99
ISBN 978-3-319-44047-7

A Course in Mathematical Statistics and Large Sample Theory

This graduate-level textbook is primarily aimed at graduate students of statistics, mathematics, science, and engineering who have had an undergraduate course in statistics, an upper division course in analysis, and some acquaintance with measure theoretic probability. It provides a rigorous presentation of the core of mathematical statistics. Part I of this book constitutes a one-semester course on basic parametric mathematical statistics. Part II deals with the large sample theory of statistics - parametric and nonparametric, and its contents may be covered in one semester as well. [...] 

Available
Graduate/Advanced undergraduate textbook
2016. XI, 389 p. 9 illus., 2 illus. in color. (Springer Texts in Statistics) Hardcover
€ (D) 74.89 | € (A) 76.99 | *CHF 77.00
€ 69,99 | £ 52,99
ISBN 978-3-319-45598-3

Data Wrangling with R

This guide for practicing statisticians, data scientists, and R users and programmers will teach the essentials of preprocessing: data leveraging the R programming language to easily and quickly turn noisy data into usable pieces of information. Data wrangling, which is also commonly referred to as data munging, transformation, manipulation, janitor work, etc., can be a painstakingly laborious process. [...] 

Available
Professional book
2016. XII, 238 p. 24 illus., 10 illus. in color. (Use RI) Softcover
€ (D) 74.89 | € (A) 76.99 | *CHF 77.00
€ 69,99 | £ 52,99
ISBN 978-3-319-45598-3
W. Briggs. Cornell University, New York City, NY

**Uncertainty**

This book presents a philosophical approach to probability and probabilistic thinking, considering the underpinnings of probabilistic reasoning and modeling, which effectively underlie everything in data science. The ultimate goal is to call into question many standard tenets and lay the philosophical and probabilistic groundwork and infrastructure for statistical modeling. [...]  

*Available*  
Graduate/Advanced undergraduate textbook  
2016. XIX, 258 p. 23 illus. Hardcover  
€ (D) 60,98 | € (A) 62,69 | *CHF 63.00  
€ 56,99 | £ 42,99  
ISBN 978-3-319-39755-9  

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P. J. Brockwell. Colorado State University, Fort Collins, CO; R. A. Davis. Columbia University, New York, NY

**Introduction to Time Series and Forecasting**

This book is aimed at the reader who wishes to gain a working knowledge of time series and forecasting methods as applied to economics, engineering and the natural and social sciences. It assumes knowledge only of basic calculus, matrix algebra and elementary statistics. This third edition contains detailed instructions for the use of the professional version of the Windows-based computer package ITSM2000, now available as a free download from the Springer Extras website. The logic and tools of time series model-building are developed in detail. [...]  

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Graduate/Advanced undergraduate textbook  
€ (D) 71,68 | € (A) 73,69 | *CHF 74.00  
€ 66,99 | £ 49,99  
ISBN 978-3-319-29852-8  

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M. A. Carlton. California Polytechnic State University, San Luis Obispo, CA, USA; J. L. Devore. California Polytechnic State University, San Luis Obispo, CA, USA

**Probability with Applications in Engineering, Science, and Technology**

This updated and revised first-course textbook in applied probability provides a contemporary and lively post-calculus introduction to the subject of probability. The exposition reflects a desirable balance between fundamental theory and many applications involving a broad range of real problem scenarios. It is intended to appeal to a wide audience, including mathematics and statistics majors, prospective engineers and scientists, and those business and social science majors interested in the quantitative aspects of their disciplines. [...]  

*Due March 2017*  
Graduate/Advanced undergraduate textbook  
2nd ed. 2017. X, 792 p. 209 illus., 178 illus. in color. (Springer Texts in Statistics) Softcover  
€ (D) 96,29 | € (A) 98,99 | *CHF 104.00  
€ 89,99 | £ 66,99  
ISBN 978-3-319-52400-9  

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**Advanced Statistical Methods in Data Science**

This book gathers invited presentations from the 2nd Symposium of the ICSA- CANADA Chapter held at the University of Calgary from August 4-6, 2015. The aim of this Symposium was to promote advanced statistical methods in big-data sciences and to allow researchers to exchange ideas on statistics and data science and to embrace the challenges and opportunities of statistics and data science in the modern world. [...]  

*Available*  
Monograph  
2016. XVI, 222 p. 41 illus., 20 illus. in color. (ICSA Book Series in Statistics) Hardcover  
€ (D) 101,64 | € (A) 104,49 | *CHF 104.50  
€ 94,99 | £ 71,00  
ISBN 978-3-319-102593-8  

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D. Chen. University of North Carolina, Chapel Hill, NC, USA; J. D. Chen. Credit Suisse Risk Management, New York, NY (Eds)

**Monte-Carlo Simulation-Based Statistical Modeling**

This book brings together expert researchers engaged in Monte-Carlo simulation-based statistical modeling, offering them a forum to present and discuss recent issues in methodological development as well as public health applications. It is divided into three parts, with the first providing an overview of Monte-Carlo techniques, the second focusing on missing data Monte-Carlo methods, and the third addressing Bayesian and general statistical modeling using Monte-Carlo simulations. [...]  

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Monograph  
2017. XVIII, 430 p. 64 illus., 33 illus. in color. (ICSA Book Series in Statistics) Hardcover  
€ (D) 117,69 | € (A) 120,99 | *CHF 121.00  
€ 109,99 | £ 82,00  
ISBN 978-3-319-103306-3  

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**Statistical Applications for Chemistry, Manufacturing and Controls (CMC) in the Pharmaceutical Industry**

This book examines statistical techniques that are critically important to Chemistry, Manufacturing, and Control (CMC) activities. Statistical methods are presented with a focus on applications unique to the CMC in the pharmaceutical industry. The target audience consists of statisticians and other scientists who are responsible for performing statistical analyses within a CMC environment. Basic statistical concepts are addressed in Chapter 2 followed by applications to specific topics related to development and manufacturing. [...]  

*Due March 2017*  
Professional book  
2017. XI, 379 p. 113 illus., 80 illus. in color. (Statistics for Biology and Health) Hardcover  
€ (D) 96,29 | € (A) 98,99 | *CHF 99.00  
€ 89,99 | £ 66,99  
ISBN 978-3-319-50184-0  

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Convoluted Copula Econometrics

This book presents a novel approach to time series econometrics, which studies the behavior of nonlinear stochastic processes. This approach allows for an arbitrary dependence structure in the increments and provides a generalization with respect to the standard linear independent increments assumption of classical time series models. The book offers a solution to the problem of a general semiparametric approach, which is given by a concept called C-convolution (convolution of dependent variables), and the corresponding theory of convolution-based copulas. [...] 

Due May 2017

Available

Brief

2016. X, 90 p. 31 illus., 30 illus. in color. (SpringerBriefs in Statistics) Softcover

€ (D) 53,49 | € (A) 54,99 | *CHF 55.00

€ 49,99 | £ 37,99

ISBN 978-3-319-48014-5

Quantitative Decisions in Drug Development

This book offers a high-level treatise of evidence-based decisions in drug development. Because of the inseparable relationship between designs and decisions, a good portion of this book is devoted to the design of clinical trials. The book begins with an overview of product development and regulatory approval pathways. It then discusses how to incorporate prior knowledge into study design and decision making at different stages of drug development. [...] 

Due May 2017

Professional book


approx.€ (D) 74,89 | € (A) 76,99 | *CHF 77.00

approx.€ 69,99 | £ 52,99

ISBN 978-3-319-46075-8

Statistical Analysis of Proteomics, Metabolomics, and Lipidomics Data Using Mass Spectrometry

This book presents an overview of computational and statistical design and analysis of mass spectrometry-based proteomics, metabolomics, and lipidomics data. This contributed volume provides an introduction to the special aspects of statistical design and analysis with mass spectrometry data for the new omic sciences. The text discusses common aspects of design and analysis between and across all (or most) forms of mass spectrometry, while also providing special examples of application with the most common forms of mass spectrometry. [...] 

Available

Contributed volume

2017. VIII, 295 p. 106 illus., 83 illus. in color. (Frontiers in Probability and the Statistical Sciences) Hardcover

€ (D) 117,69 | € (A) 120,99 | *CHF 121.00

€ 109,99 | £ 82,00

ISBN 978-3-319-45807-6

Design and Analysis of Experiments

This textbook takes a strategic approach to the broad-reaching subject of experimental design by identifying the objectives behind an experiment and teaching practical considerations that govern design and implementation, concepts that serve as the basis for the analytical techniques covered. Rather than a collection of miscellaneous approaches, chapters build on the planning, running, and analyzing of simple experiments in an approach that results from decades of teaching the subject. [...] 

Due February 2017

Graduate/Advanced undergraduate textbook

2nd ed. 2017. XXV, 842 p. 146 illus., 52 illus. in color. (Springer Texts in Statistics) Softcover

€ (D) 96,29 | € (A) 98,99 | *CHF 99.00

€ 89,99 | £ 66,99

ISBN 978-3-319-52248-7

Branching Processes and Their Applications

This volume gathers papers originally presented at the 3rd Workshop on Branching Processes and their Applications (WBPA15), which was held from 7 to 10 April 2015 in Badajoz, Spain (http://branching.unex.es/wbpa15/index.htm). The papers address a broad range of theoretical and practical aspects of branching process theory. [...] 

Available

Contributed volume

2016. XVI, 332 p. 29 illus., 4 illus. in color. (Lecture Notes in Statistics, Volume 219) Softcover

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ISBN 978-3-319-31639-0

Statistics

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R. Durrett, Duke University, Durham, NC

**Essentials of Stochastic Processes**

Building upon the previous editions, this textbook is a first course in stochastic processes taken by undergraduate and graduate students (MS and PhD students from math, statistics, economics, computer science, engineering, and finance departments) who have had a course in probability theory. It covers Markov chains in discrete and continuous time, Poisson processes, renewal processes, martingales, and option pricing. One can only learn a subject by seeing it in action, so there are a large number of examples and more than 300 carefully chosen exercises to deepen the reader’s understanding. […]

**Available**
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€ (D) 60,98 | € (A) 62,69 | *CHF 63.00
€ 56,99 | £ 42,99
ISBN 978-3-319-45613-3

M. Forte, Duke University Dept of Classical Studies, Durham, NC, USA; S. Campana, University of Siena, Siena, Italy (Eds)

**Digital Methods and Remote Sensing in Archaeology**

This volume debuts the new scope of Remote Sensing, which was first defined as the analysis of data collected by sensors that were not in physical contact with the objects under investigation (using cameras, scanners, and radar systems operating from spaceborne or airborne platforms). A wider characterization is now possible: Remote Sensing can be any non-destructive approach to viewing the buried and nominally invisible evidence of past activity. […]

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€ (D) 71,68 | € (A) 73,69 | *CHF 74.00
€ 66,99 | £ 49,99
ISBN 978-3-319-10-0888-7

C. Fraser, University of Virginia, Charlottesville, VA

**Business Statistics for Competitive Advantage with Excel 2016**

The revised Fourth Edition of this popular textbook is redesigned with Excel 2016 to encourage business students to develop competitive advantages for use in their future careers as decision makers. Students learn to build models using logic and experience, produce statistics using Excel 2016 with shortcuts, and translate results into implications for decision makers. The textbook features new examples and assignments on global markets, including cases featuring Chipotle and Costco. […]

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€ (D) 117,69 | € (A) 120,99 | *CHF 121.00
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ISBN 978-3-319-32184-4

D. Ferger, Technische Universität Dresden, Dresden, Germany; W. González Manteiga, University of Santiago de Compostela, Santiago de Compostela, Spain; T. Schmidt, University of Freiburg, Freiburg, Germany; J. Wang, University of California, Davis, CA, USA (Eds)

**From Statistics to Mathematical Finance**

This book, dedicated to Winfried Stute on the occasion of his 70th birthday, presents a unique collection of contributions by leading experts in statistics, stochastic processes and mathematical finance and insurance. The individual chapters cover a wide variety of topics ranging from nonparametric estimation, regression modelling and asymptotic bounds for estimators, to shot-noise processes in finance, option pricing and volatility modelling. The book also features review articles, e.g. on survival analysis.

**Due June 2017**
Contributed volume
approx. € (D) 117,69 | € (A) 120,99 | *CHF 121.00
approx. € 109,99 | £ 82,00
ISBN 978-3-319-50985-3

E. H. Glenn, Massachusetts Institute of Technology, Cambridge, MA, USA

**Working with the American Community Survey in R**

This book serves as a hands-on guide to the “acs” R package for demographers, planners, and other researchers who work with American Community Survey (ACS) data. It gathers the most common problems associated with using ACS data and implements functions as a package in the R statistical programming language. […]

**Available**
Brief
€ (D) 53,49 | € (A) 54,99 | *CHF 55.00
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U. J. Dixit, University of Bombay, Mumbai, India

**Examples in Parametric Inference with R**

This book discusses examples in parametric inference with R. Combining basic theory with modern approaches, it presents the latest developments and trends in statistical inference for students who do not have an advanced mathematical and statistical background. The topics discussed in the book are fundamental and common to many fields of statistical inference and thus serve as a point of departure for in-depth study. The book is divided into eight chapters: Chapter 1 provides an overview of topics on sufficiency and completeness, while Chapter 2 briefly discusses unbiased estimation. […]

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€ 89,99 | £ 66,99
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V. Gómez, Ministerio de Hacienda y Administraciones Públicas, Madrid, Spain

**Multivariate Time Series With Linear State Space Structure**

This book presents a comprehensive study of multivariate time series with linear state space structure. The emphasis is put on both the clarity of the theoretical concepts and on efficient algorithms for implementing the theory. In particular, it investigates the relationship between VARMA and state space models, including canonical forms. It also highlights the relationship between Wiener-Kolmogorov and Kalman filtering both with an infinite and a finite sample. [...] 

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J. Grover, Grover Group, Inc., Bowling Green, KY, USA

**The Manual of Strategic Economic Decision Making**

This book is an extension of the author’s first book and serves as a guide and manual on how to specify and compute 2-, 3-, and 4-Event Bayesian Belief Networks (BBN). It walks the learner through the steps of fitting and solving fifty BBN numerically, using mathematical proof. The author wrote this book primarily for inexperienced learners as well as professionals, while maintaining a proof-based academic rigor. [...] 

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W. K. Härdle, Humboldt-Universität zu Berlin; Ladislaus von Bortkiewicz, Berlin, Germany; H. H. Lu, National Chiao Tung University, Hsinchu, Taiwan; X. Shen, University of Minnesota, Minneapolis, MN, USA (Eds)

**Handbook of Big Data Analytics**

This essential guide to a broad spectrum of big data analytics in cross-disciplinary applications focuses on the statistical prospects offered by recent developments in this field. To do so, it covers statistical methods for high-dimensional problems, algorithmic designs, computation tools, analysis flows and the software-hardware co-designs that are needed to support insightful discovery from big data. The primary audience will be statisticians, computer experts, engineers and application developers interested in using big data analytics with statistics. [...] 

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approx.€ 219,00 | £ 197,50  
ISBN 978-3-319-18283-4

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T. Haslwanter, University of Applied Sciences Upper Austria, Linz, Austria

**An Introduction to Statistics with Python**

This textbook provides an introduction to the free software Python and its use for statistical data analysis. It covers common statistical tests for continuous, discrete and categorical data, as well as linear regression analysis and topics from survival analysis and Bayesian statistics. Working code and data for Python solutions for each test, together with easy-to-follow Python examples, can be reproduced by the reader and reinforce their immediate understanding of the topic. [...] 

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€ 56,99 | £ 42,99  
ISBN 978-3-319-28315-9

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H. He, Tulane University, New Orleans, LA; P. Wu, Value Institute, Newark, DE, USA; D. Chen, University of North Carolina, Chapel Hill, NC, USA (Eds)

**Statistical Causal Inferences and Their Applications in Public Health Research**

This book compiles and presents new developments in statistical causal inference. The accompanying data and computer programs are publicly available so readers may replicate the model development and data analysis presented in each chapter. In this way, methodology is taught so that readers may implement it directly. The book brings together experts engaged in causal inference research to present and discuss recent issues in causal inference methodological development. [...] 

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Contributed volume  
€ (D) 117,69 | € (A) 120,99 | *CHF 121.00  
€ 109,99 | £ 82,00  
ISBN 978-3-319-41257-3
C. Heumann, Ludwig-Maximilians-Universität München, Germany; M. Schomaker, University of Cape Town, Cape Town, South Africa; Shalabh, Indian Institute of Technology Kanpur, Kanpur, India

Introduction to Statistics and Data Analysis

This introductory statistics textbook conveys the essential concepts and tools needed to develop and nurture statistical thinking. It presents descriptive, inductive and explorative statistical methods and guides the reader through the process of quantitative data analysis. In the experimental sciences and interdisciplinary research, data analysis has become an integral part of any scientific study.

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Analysis of Repeated Measures Data

This book presents a broad range of statistical techniques to address emerging needs in the field of repeated measures. It also provides a comprehensive overview of extensions of generalized linear models for the bivariate exponential family of distributions, which represent a new development in analysing repeated measures data. The demand for statistical models for correlated outcomes has grown rapidly recently, mainly due to presence of two types of underlying associations: associations between outcomes, and associations between explanatory variables and outcomes.

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Multivariate Analysis with LISREL

This book traces the theory and methodology of multivariate statistical analysis and shows how it can be conducted in practice using the LISREL computer program. It presents not only the typical uses of LISREL, such as confirmatory factor analysis and structural equation models, but also several other multivariate analysis topics, including regression (univariate, multivariate, censored, logistic, and probit), generalized linear models, multilevel analysis, and principal component analysis.

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ISBN 978-3-319-33152-2

K. Kamatani, Osaka University Graduate School of Engineering Science, Toyonaka, Japan

Stability of Markov Chain Monte Carlo Methods

This book presents modern techniques for the analysis of Markov chain Monte Carlo (MCMC) methods. A central focus is the study of the number of iteration of MCMC and the relation to some indices, such as the number of observation, or the number of dimension of the parameter space. The approach in this book is based on the theory of convergence of probability measures for two kinds of randomness: observation randomness and simulation randomness.

Due January 2019
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2019. VI, 120 p. 10 illus. (SpringerBriefs in Statistics) Softcover
€ (D) 53,49 | € (A) 54,99 | *CHF 57.00
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G. J. Knafl, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA; K. Ding, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA

Adaptive Regression for Modeling Nonlinear Relationships

This book presents methods for investigating whether relationships are linear or nonlinear and for adaptively fitting appropriate models when they are nonlinear. Data analysts will learn how to incorporate nonlinearity in one or more predictor variables into regression models for different types of outcome variables. Such nonlinear dependence is often not considered in applied research, yet nonlinear relationships are common and so need to be addressed.

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C. Lee, Rutgers University, Piscataway Township, NJ, USA; J. Lee. Center for PBBEF Research, Morris Plains, NJ, USA; J. Chang, National Tsing Hua University, Hsinchu; T. Tai, Mezoclig, LLC, New York, NY, USA

Essentials of Excel, Excel VBA, SAS and Minitab for Statistical and Financial Analyses

This introductory textbook for business statistics teaches statistical analysis and research methods via business case studies and financial data using Excel, Minitab, and SAS. Every chapter in this textbook engages the reader with data of individual stock, stock indices, options, and futures. One studies and uses statistics to learn how to study, analyze, and understand a data set of particular interest.

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€ (D) 96,29 | € (A) 98,99 | *CHF 99.00
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**Advances in Time Series Methods and Applications**

This volume reviews and summarizes some of A. I. McLeod’s significant contributions to time series analysis. It also contains original contributions to the field and to related areas by participants of the festschrift held in June 2014 and friends of Dr. McLeod. Covering a diverse range of state-of-the-art topics, this volume well balances applied and theoretical research across fourteen contributions by experts in the field. […]

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Contributed volume
2016. VIII, 293 p. 37 illus., 7 illus. in color. (Fields Institute Communications, Volume 78) Hardcover

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ISBN 978-1-4939-6567-0

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**Statistical Inferences with Random Combinatorial Models**

This book provides a concise summary of statistical inferences with random combinatorial models, especially random partitions and related models, with necessary theoretical backgrounds. Random combinatorial models have been developed at the interface of probability and combinatorics. They are useful for data analyses; however, statistical issues have been raised in each field and a general overview has not been given. This book presents a unified treatment of methods of statistical inferences with random combinatorial models. […]

**Due March 2018**

Brief

approx. € (D) 53,49 | € (A) 54,99 | *CHF 56,50
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**Frontiers of Biostatistical Methods and Applications in Clinical Oncology**

This book presents the state of the art of biostatistical methods and their applications in clinical oncology. Many methodologies established today in biostatistics have been brought about through its applications to the design and analysis of oncology clinical studies. This field of oncology, now in the midst of evolution owing to rapid advances in biotechnologies and cancer genomics, is becoming one of the most promising disease fields in the shift toward personalized medicine. […]

**Due March 2019**

Monograph

approx. € (D) 101,64 | € (A) 104,49 | *CHF 107.00
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ISBN 978-981-10-0124-6

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**Statistics for Non-Statisticians**

This book was written for those who need to know how to collect, analyze and present data. It is meant to be a first course for practitioners, a book for private study or brush-up on statistics, and supplementary reading for general statistics classes. The book is unusual, both with respect to the choice of topics and the presentation: Topics were determined by what is most useful for practical statistical work, and the presentation is as non-mathematical as possible. The book contains many examples using statistical functions in spreadsheets. […]

**Available**

Undergraduate textbook
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€ (D) 48,14 | € (A) 49,99 | *CHF 49,50
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ISBN 978-3-662-49348-9

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**Applied Statistics for Social and Management Sciences**

This book addresses the application of statistical techniques and methods across a wide range of disciplines. While its main focus is on the application of statistical methods, theoretical aspects are also provided as fundamental background information. It offers a systematic interpretation of results often discovered in general descriptions of methods and techniques such as linear and non-linear regression. SPSS is also used in all the application aspects. […]

**Available**

Graduate/Advanced undergraduate textbook
2016. XV, 444 p. 73 illus. in color. Hardcover

€ (D) 53,49 | € (A) 54,99 | *CHF 55.00
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Assessing Model-Based Reasoning using Evidence Centered Design

This Springer Brief provides theory, practical guidance, and support tools to help designers create complex, valid assessment tasks for hard-to-measure, yet crucial, science education standards. Understanding, exploring, and interacting with the world through models characterizes science in all its branches and at all levels of education. Model-based reasoning is central to science education and thus science assessment. [...] Due April 2017 Brief 2017. XXV, 144 p. 23 illus., 9 illus. in color. (SpringerBriefs in Statistics) Softcover € (D) 53,49 | € (A) 54,99 | *CHF 55.00 € 49,99 | £ 37,99 ISBN 978-3-319-52245-6

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Y. Mori. Okayama University of Science, Okayama, Japan; M. Kuroda. Okayama University of Science, Japan; N. Makino. Benesse Corporation, Okayama, Japan

Nonlinear Principal Component Analysis and Its Applications

This book expounds the principle and related applications of nonlinear principal component analysis (PCA), which is useful method to analyze mixed measurement levels data. In the part dealing with the principle, after a brief introduction of ordinary PCA, a PCA for categorical data (nominal and ordinal) is introduced as nonlinear PCA, in which an optimal scaling technique is used to quantify the categorical variables. The alternating least squares (ALS) is the main algorithm in the method. Multiple correspondence analysis (MCA), a special case of nonlinear PCA, is also introduced. [...] Available Brief 2016. VIII, 80 p. 17 illus., 8 illus. in color. (SpringerBriefs in Statistics) Softcover € (D) 53,49 | € (A) 54,99 | *CHF 56.50 € 49,99 | £ 44,99 ISBN 978-981-10-0157-4

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Complex Surveys

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This book will be of interest to readers active in the fields of survival analysis, genetics, ecology, biology, demography, reliability and quality control. Since Sir David Cox’s pioneering work in 1972, the proportional hazards model has become the most important model in survival analysis. The success of the Cox model stimulated further studies in semiparametric and nonparametric theories, counting process models, study designs in epidemiology, and the development of many other regression models that could offer more flexible or more suitable approaches in data analysis. [...] Available Brief 2016. XII, 124 p. 25 illus., 18 illus. in color. (SpringerBriefs in Statistics) Softcover € (D) 53,49 | € (A) 54,99 | *CHF 55.00 € 49,99 | £ 37,99 ISBN 978-3-662-49331-1
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