

OXFORD STATISTICAL SCIENCE SERIES

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The Oxford Statistical Science Series is established and authoritative. It includes textbooks and monographs covering many topics of current research interest in both pure and applied statistics. The authors are leading researchers and the topics covered will be of interest to all professional statisticians, whether in industry, government departments or research institutes.

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NEW EDITION

Statistical modelling in GLIM4

SECOND EDITION

Murray Aitkin, University of Melbourne, Australia, **Brian Francis**, Lancaster University, and **John Hinde**, National University of Ireland, Galway

Ideal for graduates and research students in applied statistics and a wide range of quantitative disciplines, this text gives a comprehensive treatment of the theory of statistical modelling with generalised linear models with an emphasis on applications of the theory to practical problems, using the widely available package GLIM4.

Oxford Statistical Science Series No. 32

2005 | 572 pages

0-19-852413-7 / 978-0-19-852413-7, HARDBACK

£63.00/\$134.50



Celebrating Statistics

Papers in Honour of Sir David Cox on his 80th Birthday

Edited by **A. C. Davison**, Swiss Federal Institute of Technology, **Yadolah Dodge**, Université de Neuchâtel, and **N. Wermuth**, Chalmers University of Technology

Originating from a meeting celebrating the 80th birthday of Sir David Cox, this book presents a collection of chapters by major statistical researchers on current developments across a wide range of research areas from epidemiology, environmental science, finance, computing and medicine.

Oxford Statistical Science Series No. 33

2005 | 320 pages

0-19-856654-9 / 978-0-19-856654-0, HARDBACK

£40.00/\$79.50



Analysis of Longitudinal Data

SECOND EDITION

Peter Diggle, University of Lancaster, **Patrick Heagerty**, University of Washington, **Kung-Yee Liang**, and **Scott Zeger**, both at Johns Hopkins University

This important text has been completely revised and expanded to become the most up-to-date and thorough professional reference text in this fast-moving area of biostatistics (medical statistics). This new edition contains an additional two chapters. The first of these discusses fully parametric models for discrete repeated measures data. The second explores statistical models for time-dependent predictors where there may be feedback between the predictor and response variables.

Oxford Statistical Science Series No. 25

2002 | 396 pages

0-19-852484-6 / 978-0-19-852484-7, HARDBACK

£47.00/\$94.50

Highly Structured Stochastic Systems

Peter J Green, University of Bristol, **Nils Lid Hjort**, University of Oslo, and **Sylvia Richardson**, Imperial College, London

Highly Structured Stochastic Systems (HSSS) is a modern strategy for building statistical models for challenging real-world problems, for computing with them, and for interpreting the resulting inference. The aim of this book is to make recent developments in HSSS accessible to a general statistical audience including graduate students and researchers.

Oxford Statistical Science Series No. 27

2003 | 532 pages

0-19-851055-1 / 978-0-19-851055-0, HARDBACK

£46.00/\$84.50

Nonlinear Models for Medical Statistics

J.K. Lindsey, Limburgs Universitair Centrum

Oxford Statistical Science Series No. 26

2001 | 292 pages

0-19-850812-3 / 978-0-19-850812-0, HARDBACK

£44.00/\$69.50

Procrustes Problems

John C Gower, Open University and **Garnt B Dijkstra**, WUR Wageningen University

The text is the first systematic overview of Procrustean methods in one volume, presenting a unifying Analysis of Variance framework for different matching methods and the development of statistical tests.

Oxford Statistical Science Series No. 30

2003 | 248 pages

0-19-851058-6 / 978-0-19-851058-1, HARDBACK

£64.00/\$109.50

The Statistical Evaluation of Medical Tests for Classification and Prediction

Margaret Sullivan Pepe, University of Washington

This book describes statistical techniques for the design and evaluation of research studies on medical diagnostic tests, screening tests, biomarkers and new technologies for classification and prediction in medicine.

Oxford Statistical Science Series No. 31

2004 | 318 pages

0-19-856582-8 / 978-0-19-856582-6, PAPERBACK

£39.50/\$89.50

0-19-850984-7 / 978-0-19-850984-4, HARDBACK

£71.00/\$134.50

Numerical Methods for Nonlinear Estimating Equations

Christopher G. Small, University of Waterloo and **Jin Fang Wang**, Obihiro University, Japan

This book provides a comprehensive study of nonlinear estimating equations and artificial likelihoods for statistical inference. It includes a variety of examples from practical applications and is ideal for research statisticians and advanced graduate students.

Oxford Statistical Science Series No. 29

2003 | 322 pages

0-19-850688-0 / 978-0-19-850688-1, HARDBACK

£66.00/\$134.50

Time Series Analysis by State Space Methods

James Durbin, London School of Economics and **Siem Jan Koopman**, Free University, Amsterdam

Oxford Statistical Science Series No. 24

2001 | 253 pages | Clarendon Press

0-19-852354-8 / 978-0-19-852354-3, HARDBACK £42.00/\$89.50



NEW IN PAPERBACK

The Roots of Reason

Philosophical Essays on Rationality, Evolution, and Probability

David Papineau, King's College London

David Papineau presents a controversial view of human reason, portraying it as a normal part of the natural world, and drawing on the empirical sciences to illuminate its workings. In these six interconnected essays he discusses both theoretical and practical rationality, and shows how evolutionary theory, decision theory, and quantum mechanics offer fresh approaches to some long-standing problems.

January 2006 | 256 pages

0-19-928871-2 / 978-0-19-928871-7, PAPERBACK



£14.99/\$26.95

Introduction to Distance Sampling

Estimating Abundance of Biological Populations

Stephen Terrence Buckland, University of St. Andrews, David R. Anderson, Colorado Cooperative Fish and Wildlife Research Unit, Kenneth Paul Burnham, Colorado Cooperative Fish and Wildlife Research Unit, Jeffrey Lee Laake, National Maritime Mammal Laboratory, David Louis Borchers, University of St. Andrews, and Leonard Thomas, University of St. Andrews

The term 'distance sampling' covers a range of statistical methods for assessing wildlife abundance. This group of authors is at the forefront of research into developing such techniques, and their 1993 book *Distance Sampling* has become the standard reference in the area. *Introduction to Distance Sampling* is an update of the basic material from the original book, and focuses on teaching the standard techniques to practitioners in population assessment.

2001 | 448 pages

0-19-850927-8 / 978-0-19-850927-1, PAPERBACK £29.00/\$59.50

Measuring Health

A Guide to Rating Scales and Questionnaires

THIRD EDITION

Ian McDowell, University of Ottawa

This is the third edition of a reference text that provides in-depth reviews of the quality of over 100 health measurement instruments. It guides the reader in choosing among rival methods, showing how to administer and score them. It also includes an historical and technical introduction to the field of health measurement.

February 2006 | 848 pages | OUP USA

0-19-516567-5 / 978-0-19-516567-8, HARDBACK



£43.00/\$69.95

Advanced Distance Sampling

Estimating Abundance of Biological Populations

Edited by S.T. Buckland, University of St. Andrews, D.R. Anderson, Colorado Cooperative Fish and Wildlife Research Unit, K.P. Burnham, Colorado Cooperative Fish and Wildlife Research Unit, J.L. Laake, National Marine Mammal Laboratory, D.L. Borchers, University of St. Andrews, and L. Thomas, University of St. Andrews

This advanced text focuses on the uses of distance sampling to estimate the density and abundance of biological populations. It addresses new methodologies, new technologies and recent developments in statistical theory and is the follow up companion to *Introduction to Distance Sampling* (OUP, 2001).

2004 | 434 pages

0-19-850783-6 / 978-0-19-850783-3, HARDBACK £50.00/\$119.50



Bayesian Statistics 7

Proceedings of the Seventh Valencia International Meeting



Edited by José M. Bernardo, Universidad de Valencia, A. Philip Dawid, University College London, James O. Berger, Duke University USA, Mike West, Duke University USA, David Heckerman, Microsoft Research, M.J. Bayarri, Universidad de Valencia, and Adrian F.M. Smith, Queen Mary University of London

2003 | 764 pages

0-19-852615-6 / 978-0-19-852615-5, HARDBACK £100.00/\$189.50

Neural Networks for Pattern Recognition

Christopher M. Bishop, Microsoft Research
Foreword by Geoffrey Hinton, University of Toronto

This book is the first to provide a comprehensive account of neural networks from a statistical perspective. Its emphasis is on pattern recognition, which currently represents the area of greatest applicability for neural networks. By focusing on pattern recognition, the book provides a much more extensive treatment of many topics than is available in earlier books.

1995 | 500 pages | Clarendon Press

0-19-853864-2 / 978-0-19-853864-6, PAPERBACK £30.00/\$84.50

Statistical Models in Epidemiology

David Clayton, University of Cambridge, and Michael Hills, London School of Hygiene and Tropical Medicine

This self-contained account of the statistical basis of epidemiology has been written for those with a basic training in biology. It is specifically intended for students enrolled for a masters degree in epidemiology, clinical epidemiology, or biostatistics. No previous knowledge of the subject is assumed and mathematics is deliberately kept at a manageable level. The authors introduce the concept of likelihood at the outset, and develop the theory in a highly visual way, making use of a large number of diagrams. Based on a highly successful course, this book explains the essential statistics for all epidemiologists.

1993 | 376 pages

0-19-852221-5 / 978-0-19-852221-8, HARDBACK £51.00/\$85.00

An Introduction to Quantum Computing

Phillip Kaye, Raymond Laflamme, and Michele Mosca, all at University of Waterloo, Ontario

This concise, accessible introduction to quantum computing is aimed at advanced undergraduate and beginning graduate students from a variety of scientific backgrounds. The text is technically detailed and clearly illustrated throughout with diagrams and exercises.

October 2006 | 288 pages

0-19-857000-7 / 978-0-19-857000-4, HARDBACK £75.00/\$139.50

0-19-857049-X / 978-0-19-857049-3, PAPERBACK £26.50/\$49.50

Statistical Thought

A Perspective and History

Shoutir Kishore Chatterjee, formerly of Kalcutta University

'The book seems to be unique of its kind ... a very important book, which should be read and reread several times. Each time the reader may detect new avenues.'

Mathematical Reviews

In this unique monograph, based on years of extensive work, Chatterjee presents the historical evolution of statistical thought from the perspective of various approaches to statistical induction. Developments in statistical concepts and theories are discussed alongside philosophical ideas on the ways we learn from experience.

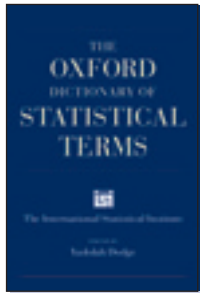
2003 | 436 pages

0-19-852531-1 / 978-0-19-852531-8, HARDBACK £75.00/\$169.50



NEW IN PAPERBACK

The Oxford Dictionary of Statistical Terms



Editor **Professor Yadolah Dodge**, University of Neuchatel, Switzerland

Reviews from previous edition:

'This statistical dictionary brings together an extensive collection of statistical terminology regarding statistical methodology used within all areas of statistics.'

Pharmaceutical Statistics

'... a useful reference book.'

Statistics in Medicine

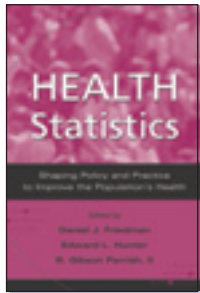
This is the new in paperback edition of *The Oxford Dictionary of Statistical Terms*, the much-awaited sixth edition of the acclaimed standard reference work in statistics, published on behalf of the International Statistical Institute.

July 2006 | 506 pages

0-19-920613-9 / 978-0-19-920613-1, PAPERBACK £12.99/\$44.50

Health Statistics

Shaping Policy and Practice to Improve the Population's Health



Edited by **Daniel J. Friedman**, Population and Public Health Information Services, **Edward L. Hunter**, National Center for Health Statistics, and **R. Gibson Parrish, II**, Formerly at the Centers for Disease Control and Prevention

Health statistics have been an essential tool for improving the health of populations for centuries,

yet no single book covers the key elements in developing, using, and improving them. This volume fills that crucial gap by providing a comprehensive account of the essential concepts and complex underpinnings of health statistics.

2005 | 536 pages | OUPUSA

0-19-514928-9 / 978-0-19-514928-9, HARDBACK £29.99/\$49.50



Stochastic Processes and Models

David Stirzaker, University of Oxford

Stochastic Processes and Models provides a concise and lucid introduction to simple stochastic processes and models. Including numerous exercises, problems and solutions, it covers the key concepts and tools.

2005 | 344 pages

0-19-856814-2 / 978-0-19-856814-8, PAPERBACK £27.50/\$54.50

0-19-856813-4 / 978-0-19-856813-1, HARDBACK £65.00/\$129.50

Computational Text Analysis

For Functional Genomics and Bioinformatics

Soumya Raychaudhuri, Stanford University

This book brings together the two disparate worlds of computational text analysis and biology and presents some of the latest methods and applications to proteomics, sequence analysis, and gene expression data. Including background chapters on the necessary biology, statistics, and genomics it is ideal for students and researchers in computational biology, bioinformatics, genomics, statistics and computer science.

January 2006 | 312 pages

0-19-856741-3 / 978-0-19-856741-7, PAPERBACK

0-19-856740-5 / 978-0-19-856740-0, HARDBACK

£35.00/\$64.50

£65.00/\$119.50



Statistical Evidence in Medical Trials

What do the Data Really Tell Us?

Stephen D. Simon, Office of Medical Research, Children's Mercy Hospitals and Clinics, Kansas City

Statistical Evidence in Medical Trials is a lucid, well-written and entertaining text that addresses common pitfalls in evaluating medical research. Including extensive use of publications from the medical literature and a non-technical account of how to appraise the quality of evidence presented in these publications, this book is ideal for health care professionals, students in medical or nursing schools, researchers and students in statistics, and anyone needing to assess the evidence published in medical journals.

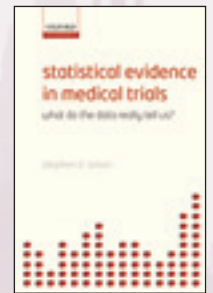
February 2006 | 208 pages

0-19-856761-8 / 978-0-19-856761-5, PAPERBACK

0-19-856760-X / 978-0-19-856760-8, HARDBACK

£25.00/\$44.50

£65.00/\$114.50



Statistical Inference



Paul Garthwaite, Open University, **Ian Jolliffe**, University of Aberdeen, and **Byron Jones**, Director, Research Statistics Unit (UK), GlaxoSmithKline

'This book is easy to read and is designed to be an advanced level textbook for senior undergraduate students ... a useful, comprehensive reference for practising statisticians.'

Zentralblatt MATH

2002 | 340 pages

0-19-857226-3 / 978-0-19-857226-8, HARDBACK £49.00/\$94.50

One Thousand Exercises in Probability

SECOND EDITION



Geoffrey Grimmett, University of Cambridge, and **David Stirzaker**, University of Oxford

'A useful source of exercises and problems from probability theory and random process. I have read it with great pleasure and can recommend it to students and teachers.'

EMS

2001 | 448 pages

0-19-857221-2 / 978-0-19-857221-3, PAPERBACK £27.50/\$50.00

Discrete Mathematics

SECOND EDITION

Norman L. Biggs, London School of Economics

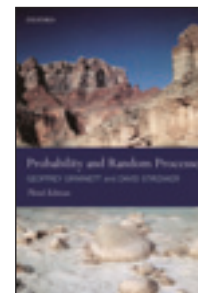
This much-awaited new edition of Biggs' best-selling text includes new chapters on statements and proof, logical framework, and natural numbers and the integers, in addition to updated chapters, over 1000 tailored exercises and an accompanying website containing hints and solutions to all exercises. The text is designed explicitly for mathematicians and computer scientists seeking a first approach to this important topic.

2002 | 440 pages

0-19-850717-8 / 978-0-19-850717-8, PAPERBACK £29.50/\$69.50

0-19-850718-6 / 978-0-19-850718-5, HARDBACK £63.50/\$98.00

Probability and Random Processes



THIRD EDITION

Geoffrey Grimmett, University of Cambridge, and **David Stirzaker**, University of Oxford

'As well as its masterful coverage of the material, the book has many appealing stylistic features.'

Mathematical Gazette

'This is definitely one of my favourites as a textbook ... a wealth of interesting teaching material at all levels.'

Short Book Reviews of the ISI

2001 | 608 pages

0-19-857222-0 / 978-0-19-857222-0, PAPERBACK £29.95/\$69.50

REVISED EDITION

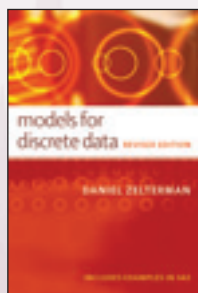
Models for Discrete Data

Daniel Zelterman, Yale University

This revised edition illustrates the statistical analysis of data using computer programs in SAS, a widely used software package in the health sciences. Many numerical examples are provided to illustrate the methods and these are discussed along with the corresponding computer output. Several new datasets are included, mostly from the health and medical sector.

February 2006 | 304 pages

0-19-856701-4 / 978-0-19-856701-1, HARDBACK £50.00/\$94.50



Agency and the Semantic Web

Christopher Walton, University of Edinburgh

This text looks at the construction of the Semantic Web, which will enable computers to automatically and independently consume Web-based information. With numerous programming examples, it is ideal for undergraduates and graduates in mathematics, computer science and logic and researchers interested in Multi-Agent Systems and the Semantic Web.

October 2006 | 272 pages

0-19-929248-5 / 978-0-19-929248-6, HARDBACK

£29.95/\$54.50



Gene Genealogies, Variation and Evolution

A Primer in Coalescent Theory



Jotun Hein, University of Oxford, Mikkel Schierup, University of Aarhus, Denmark, and Carsten Wiuf, University of Aarhus, Denmark

Authored by leading experts, this seminal text presents a straightforward and elementary account of coalescent theory, which is a central concept in the study of genetic sequence variation

observed in a population. Rich in examples and illustrations it is ideal for a graduate course in statistics, population, molecular and medical genetics, bioscience and medicine, and for students studying the evolution of human population and disease. It is also an invaluable reference for bioscientists and statisticians in the pharmaceutical industry and academia

2004 | 296 pages

0-19-852996-1 / 978-0-19-852996-5, PAPERBACK £29.95/\$69.50

Fortran 95/2003 Explained

Michael Metcalf, Formerly of the Information Technology Division CERN, Geneva, John Reid, Rutherford Appleton Laboratory, Oxford, and Malcolm Cohen, Numerical Algorithm Group, Oxford

Authored by three leading experts in the development of the language, this is a complete and authoritative description of the two languages (Fortran 95 and Fortran 2003). It is intended for new and existing users of Fortran, and for all those involved in scientific and numerical computing. It is suitable as textbook for teaching and, with its extensive index, as a handy reference for practitioners.

2004 | 434 pages

0-19-852693-8 / 978-0-19-852693-3, PAPERBACK £25.00/\$59.95

0-19-852692-X / 978-0-19-852692-6, HARDBACK £74.00/\$144.50

In All Likelihood

Statistical Modelling and Inference Using Likelihood



Yudi Pawitan, National University of Ireland

'This is a splendid book with its contents thoroughly covering all likelihood... Statements are firm, and explanations are full and clear. This book may be used as a reference work. It is strongly recommended as an academic library volume, and individually for statistics lecturers, advanced students, and researchers.'

The Mathematical Gazette

This book introduces likelihood as a unifying concept in statistical modelling and inference. The complete range of concepts and applications are covered, from very simple to very complex studies. The approach is largely informal, relying on realistic examples, and presents the main results using heuristic rather than formal mathematical arguments.

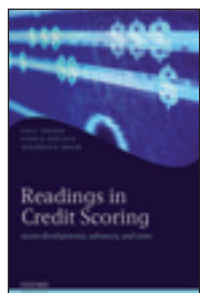
2001 | 528 pages

0-19-850765-8 / 978-0-19-850765-9, HARDBACK £44.00/\$94.50

Readings in Credit Scoring

Foundations, Developments, and Aims

Lyn C. Thomas, University of Southampton, David B. Edelman, Direct Line Financial Services, and Jonathan Crook, University of Edinburgh.



A collection of papers, accompanied by extensive discussion and commentary, by leading workers in credit scoring, this text focuses on recent developments and advances in this important area.

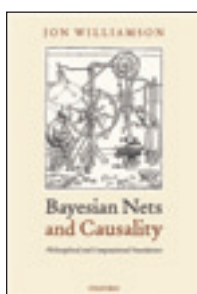
Oxford Finance Series

2004 | 338 pages

0-19-852797-7 / 978-0-19-852797-8, HARDBACK £56.00/\$115.00

Bayesian Nets and Causality

Philosophical and Computational Foundations



Jon Williamson, University of Kent

Bayesian nets are widely used in artificial intelligence as a calculus for causal reasoning, enabling machines to make predictions, perform diagnoses, take decisions and even to discover causal relationships. This book, aimed at researchers and graduate students in computer science, mathe-

matics and philosophy, brings together two important research topics: how to automate reasoning in artificial intelligence, and the nature of causality and probability in philosophy.

2004 | 250 pages

0-19-853079-X / 978-0-19-853079-4

£42.00/\$89.50

Introduction to Applied Statistics

A Modelling Approach

SECOND EDITION

JK Lindsey, University of Liege

This text is aimed at students in medicine, biology, and the social sciences, as well as those planning to specialise in applied statistics. It covers the basics of the design and analysis of surveys and experiments and provides an understanding of the basic principles of modelling and inference. Practical advice is provided on how to design a study, collect data, record observations accurately, detect errors, construct appropriate models, and interpret the results. The text contains many illustrative examples and exercises relating statistical principles to research.

2003 | 336 pages

0-19-852894-9 / 978-0-19-852894-4, HARDBACK £70.00/\$168.00

0-19-852895-7 / 978-0-19-852895-1, PAPERBACK £31.00/\$59.50

Random Geometric Graphs

Mathew Penrose, University of Bath

'The book is suitable to design a graduate course in random geometric graphs. Its scope stretches far beyond geometric probability and includes exciting material from Poisson approximation, percolation and statistical physics. This elegantly written monograph belongs to the collection of important books vital for every probabilist.'

Zentralblatt MATH

This monograph provides and explains the probability theory of geometric graphs. Applications of the theory include communications networks, classification, spatial statistics, epidemiology, astrophysics and neural networks.

Oxford Studies in Probability No. 5

2003 | 344 pages

0-19-850626-0 / 978-0-19-850626-3, HARDBACK £49.00/\$89.50

Empirical Methods in Short-Term Climate Prediction

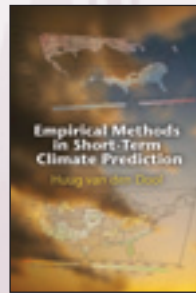
Huug van den Dool, University of Maryland

This clear, accessible text describes the methods and advances in short-term climate prediction at time scales of 2 weeks to a year. With an emphasis on the prediction methods themselves and the use of observations, the text is ideal for students and researchers in Meteorology, Atmospheric Science, Geoscience, Mathematics, Statistics and Physics.

November 2006 | 288 pages

0-19-920278-8 / 978-0-19-920278-2, HARDBACK

£49.95/\$89.50



Solving Mathematical Problems

A Personal Perspective

Terence Tao, University of California, Los Angeles

Authored by a leading name in mathematics, this engaging and clearly presented text leads the reader through the tactics involved in solving mathematical problems at the Mathematical Olympiad level. With numerous exercises and assuming only basic mathematics, this text is ideal for students of 14 years and above in pure mathematics.

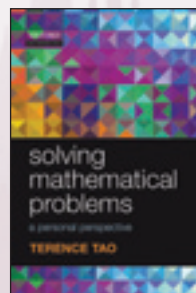
August 2006 | 128 pages

0-19-920561-2 / 978-0-19-920561-5, HARDBACK

0-19-920560-4 / 978-0-19-920560-8, PAPERBACK

£37.50/\$74.50

£12.99/\$24.95



Data Analysis

A Bayesian Tutorial

SECOND EDITION

Devinderjit Sivia, Rutherford Appleton Laboratory, and John Skilling, Maximum Entropy Data Consultants

This is the second edition of the first tutorial book on Bayesian methods and maximum entropy aimed at senior undergraduates in science and engineering. It takes the mystery out of statistics by showing how a few fundamental rules can be used to tackle a variety of problems in data analysis.

June 2006 | 264 pages

0-19-856831-2 / 978-0-19-856831-5, HARDBACK £39.95/\$74.50

0-19-856832-0 / 978-0-19-856832-2, PAPERBACK £22.50/\$39.50

System Control and Rough Paths

Terry Lyons, and Zhongmin Qian, both at University of Oxford

This book describes a completely novel mathematical development which has already influenced probability theory, and has potential for application to engineering and to areas of pure mathematics.

Oxford Mathematical Monographs

2002 | 226 pages | Clarendon Press

0-19-850648-1 / 978-0-19-850648-5, HARDBACK £56.00/\$99.50

Teaching Statistics

A Bag of Tricks

Andrew Gelman, Columbia University and Deborah Nolan, University of California

'... very readable ... a book to dip into ... a useful companion to have to hand with fresh and relevant ideas.'

Mathematics in School

'This book contains more material than could possibly be used in a single course; we suggest you read through it all and then try out some of the ideas. Pick and choose what works for you.'

Zentralblatt Math

2002 | 316 pages

0-19-857224-7 / 978-0-19-857224-4, PAPERBACK £27.50/\$54.50

0-19-857225-5 / 978-0-19-857225-1, HARDBACK £68.00/\$163.50

Hierarchical Modelling for the Environmental Sciences

Statistical Methods and Applications

James S. Clark, and Alan E. Gelfand, both at Duke University

New statistical tools are changing the way in which scientists analyze and interpret data and models. Hierarchical Bayes and Markov Chain Monte Carlo methods for analysis provide a consistent framework for inference and prediction where information is heterogeneous and uncertain, processes are complicated, and responses depend on scale. Nowhere are these methods more promising than in the environmental sciences.

May 2006 | 216 pages

0-19-856967-X / 978-0-19-856967-1, PAPERBACK £32.50/\$59.50

0-19-856966-1 / 978-0-19-856966-4, HARDBACK £65.00/\$114.50

Bayesian Epistemology

Luc Bovens and Stephan Hartmann, both at the London School of Economics

Probability theory is increasingly important to philosophy. Bayesian probabilistic models offer us ways of getting to grips with fundamental problems about information, coherence, reliability, confirmation, and testimony, and thus show how we can justify beliefs and evaluate theories. Bovens and Hartmann provide a systematic guide to the use of probabilistic methods not just in epistemology, but also in philosophy of science, voting theory, jurisprudence, and cognitive psychology.

2004 | 170 pages

0-19-927040-6 / 978-0-19-927040-8, PAPERBACK £19.99/\$35.00

0-19-926975-0 / 978-0-19-926975-4, HARDBACK £40.00/\$74.00

Monte Carlo Methods in Statistical Physics

M. E. J. Newman, Santa Fe Institute, and G. T. Barkema, Utrecht University, The Netherlands

This book provides an introduction to the use of Monte Carlo computer simulation methods suitable for beginning graduate students and beyond. It is suitable for a course text for physics or chemistry departments or for self-teaching.

1999 | 490 pages | Clarendon Press

0-19-851797-1 / 978-0-19-851797-9, PAPERBACK £38.50/\$84.50

Bayes's Theorem

Edited by Richard Swinburne, Fellow of the British Academy

Bayes's theorem is a tool for assessing how probable evidence makes some hypothesis. The papers in this volume consider the worth and applicability of the theorem.

Proceedings of the British Academy No. 113

2005 | 160 pages | OUP/British Academy

0-19-726341-0 / 978-0-19-726341-9, PAPERBACK £9.95/\$18.50

Statistical Mechanics

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