

# NHBS Autumn & Winter Catalogue

*Our Wildlife, Science and Conservation Catalogue*

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## Data Analysis, Modelling & Biocomputing

We present an extremely varied collection of new titles on data analysis, modelling, biocomputing and phylogenetics. These include Marc Mangel's **The Theoretical Biologist's Toolbox**, Ralf Blossey's **Computational Biology** and a new edition of Bryan Manly's **Randomization, Bootstrap and Monte Carlo Methods in Biology**. Lecointre & Le Guyader's **Tree of Life** has been translated from the French and presents an excellent overview of phylogenetics. At a more applied level, Norman Owen-Smith's **Introduction to Modeling in Wildlife and Resource Management** provides students with the skills to develop their own models.

➔ [Autumn & Winter Catalogue main web page](#)

➔ [NHBS Home Page](#)

## Editor's Choice

### Analysing Ecological Data

Alain F Zuur, Elena N Ieno and Graham M Smith

Provides a practical introduction to analysing ecological data using real data sets collected as part of postgraduate ecological studies or research projects. ....

685 pages,  
hardcover | NYP 03/2007 | **£50.50** | approx. \$95/€75



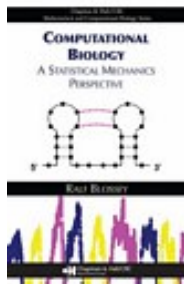
### Cluster and Classification Techniques for the Biosciences

Alan Fielding

Recent advances in experimental methods have resulted in the generation of enormous volumes of data across the life sciences. Hence clustering and classification techniques ....

220 pages, 62 line diags, 58 tabs.

hardcover | NYP 12/2006 | **£65** | approx. \$122/€96  
softcover | NYP 12/2006 | **£27.99** | approx. \$53/€42



### Computational Biology

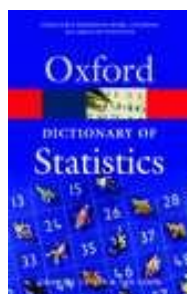
A Statistical Mechanics Perspective  
Ralf Blossey

Quantitative methods have a particular knack for improving any field they touch. For biology, computational techniques have led to enormous strides in our understanding of ....

256 pages,  
hardcover | 2006 | **£44.99** | approx. \$85/€67

### List of Data Analysis, Modelling & Biocomputing subjects

- ➔ Data Analysis & Statistics
- ➔ Modelling
- ➔ Study Design, Monitoring & Sampling
- ➔ Cladistics, Phylogeny, Phenology & Taxonomy
- ➔ Bioinformatics
- ➔ Cartography, Remote Sensing, Image Analysis & GIS
- ➔ Microscopy & Spectroscopy



### Oxford Dictionary of Statistics

Graham Upton and Ian Cook

Containing over 1,700 entries on almost all aspects of statistics, this dictionary includes terms used in computing, mathematics, operational research, and probability. It ....

496 pages,  
softcover | 2006 | **£9.99** | approx. \$19/€15

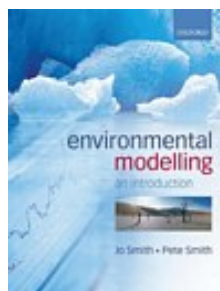


### Randomization, Bootstrap and Monte Carlo Methods in Biology

Bryan FJ Manly

Modern computer-intensive statistical methods play a key role in solving many problems across a wide range of scientific disciplines. This new edition of the bestselling ....

392 pages, figs, tabs.  
hardcover | 2006 | **£39.99** | approx. \$75/€60



### Environmental Modelling

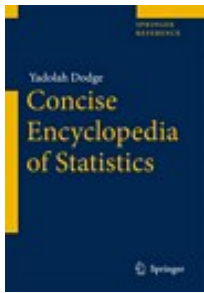
An Introduction  
Jo Smith and Peter Smith

The global environment is a complex mix of interlinked processes, about which observation can tell us a great deal. But how can we use current observation to model ....

256 pages,  
softcover | NYP 02/2007 | **£24.99** | approx. \$47/€37

### Introduction to Modeling in Wildlife and Resource Management

Norman Owen-Smith



## The Concise Encyclopedia of Statistics

Yadolah Dodge

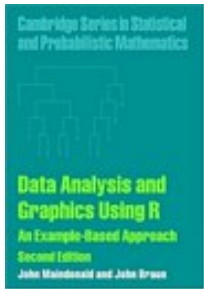
The Concise Encyclopedia of Statistics presents the essential information about statistical tests, concepts, and analytical methods in language that is accessible to ....

900 pages,  
hardcover | NYP 12/2006 | **£191.50** |

approx. \$359/€283

This book provides students with the skills to develop their own models for application in conservation biology and wildlife management. Assuming no special mathematical ....

208 pages, 20 illus.  
softcover | NYP 02/2007 | **£19.99** | approx. \$38/€30



## Data Analysis and Graphics Using R: An Example-based Approach

J Maindonald

Starting with an introduction to R, covering standard regression methods, then presenting more advanced topics, this book guides users through the practical and ....

400 pages, 26 tabs, 58 figs.

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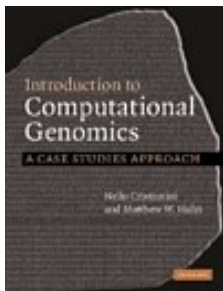
## The Theoretical Biologist's Toolbox

Quantitative Methods for Ecology and Evolutionary Biology  
Marc Mangel

Mathematical modelling is widely used in ecology and evolutionary biology and it is a topic that many biologists find difficult to grasp. In this new

textbook Marc Mangel ....

390 pages, diags.  
hardcover | 2006 | **£55** | approx. \$104/€82  
softcover | 2006 | **£27.99** | approx. \$53/€42



## Introduction to Computational Genomics

A Case Studies Approach  
Nello Cristianini and Hahn Matthew W

Where did SARS come from? Have we inherited genes from Neanderthals? How do plants use their internal clock? The genomic revolution in biology enables us to answer such ....

48 line diags, 3 half-tones, 12 tabs, 32

exs, 6 col figs.

hardcover | NYP 12/2006 | **£50** | approx. \$94/€74  
softcover | NYP 12/2006 | **£24.99** | approx. \$47/€37



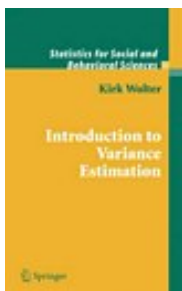
## The Tree of Life

A Phylogenetic Classification  
Guillaume Lecointre and Hervé Le Guyader

Did you know that you are more closely related to a mushroom than to a daisy? That crocodiles are closer to birds than to lizards? That dinosaurs are still among us? That ....

560 pages, 1500 line drawings.  
hardcover | NYP 12/2006 | **£25.95** |

approx. \$49/€39



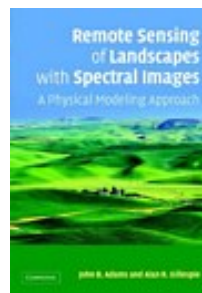
## Introduction to Variance Estimation

Kirk Wolter

We live in the information age. Statistical surveys are used every day to determine or evaluate public policy and to make important business decisions. Correct methods for ....

490 pages, 5 illus.  
hardcover | NYP 01/2007 | **£50** | approx.

\$94/€74



## Remote Sensing of Landscapes with Spectral Images

A Physical Modeling Approach  
John B Adams and Alan R Gillespie

Remote Sensing of Landscapes with Spectral Images describes how to process and interpret spectral images using physical models to bridge the gap between the engineering and ....

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## Landscape Pattern Analysis for Assessing Ecosystem Condition

GD Johnson and GP Patil

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150 pages,  
hardcover | NYP 11/2006 | **£59** | approx.

\$111/€88

## The complete list

### ➡ Data Analysis & Statistics

#### **FORTHCOMING** Analysing Ecological Data

Alain F Zuur, Elena N Ieno and Graham M Smith

Provides a practical introduction to analysing ecological data using real data sets collected as part of postgraduate ecological studies or research projects. ....

685 pages | Springer  
Hbk | NYP 03/2007 | 0387459677 |  
#162296A | **£50.50**

**Add to basket**

#### **NEW** Biological Sequence Analysis with Interactive Maps

Jonas S Almeida

This book provides an accessible introduction to the new theory, illustrates its algorithmic implementation, and suggests new formulations for sequence querying, ....

506 pages | CRC Press  
Hbk | 2006 | 1584883324 | #137942A |  
**£54.99**

**Add to basket**

#### Choosing and Using Statistics

##### A Biologist's Guide

Calvin Dytham

A handbook for biologists who want to process their data through a statistical package on the computer, to select the most appropriate methods, and extract the important ....

248 pages | Figs, tabs | Blackwell  
Pbk | 2002 | 1405102438 | #133207A |  
**£24.99**

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#### **FORTHCOMING** Cluster and Classification Techniques for the Biosciences

Alan Fielding

Recent advances in experimental methods have resulted in the generation of enormous volumes of data across the life sciences. Hence clustering and classification techniques ....

220 pages | 62 line diags, 58 tabs | CUP  
Hbk | NYP 12/2006 | 0521852811 |  
#161643A | **£65.00**

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Pbk | NYP 12/2006 | 0521618002 |  
#161644A | **£27.99**

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Ralf Blossey

Quantitative methods have a particular knack for improving any field they touch. For biology, computational techniques have led to enormous strides in our understanding of ....

256 pages | Chapman & Hall (CRC Press)  
Hbk | 2006 | 1584885564 | #159363A |  
**£44.99**

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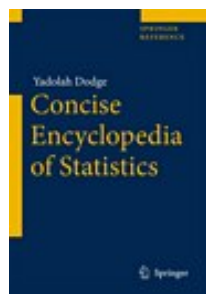
#### **NEW** Computational Systems Biology

Edited by Andres Kriete and Roland Eils

Systems Biology applies mathematical modelling and engineering methods to the study of biological systems. This book covers new concepts, methods for information storage, ....

424 pages | approx. 150 illus |  
Academic Press  
Hbk | 2006 | 012088786X | #157313A |  
**£79.00**

**Add to basket**

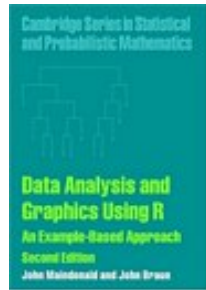


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Yadolah Dodge  
The Concise Encyclopedia of Statistics presents the essential information about statistical tests, concepts, and analytical methods in language that is accessible to ....

900 pages | - | Springer  
Hbk | NYP 12/2006 | 0387317422 | #158925A | **£191.50**

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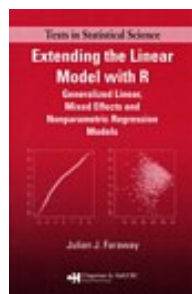


**NEW EDITION** **Data Analysis and Graphics Using R: An Example-based Approach**

J Maindonald  
Starting with an introduction to R, covering standard regression methods, then presenting more advanced topics, this book guides users through the practical and ....

400 pages | 26 tabs, 58 figs | CUP  
Hbk | NYP 12/2006 | 0521861160 | #161627A | **£45.00**

**Add to basket**

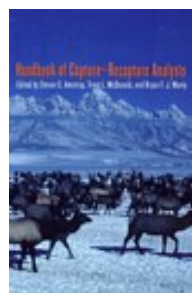


**NEW** **Extending the Linear Model with R**  
**Generalized Linear, Mixed Effects and Nonparametric Regression Models**

JJ Faraway  
This modern statistics text discusses the extension of the linear model through the regression model. It extensively addresses the generalized linear model, GLM ....

299 pages | - | CRC Press  
Hbk | 2006 | 158488424X | #158603A | **£39.99**

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**NEW** **Handbook of Capture-Recapture Analysis**

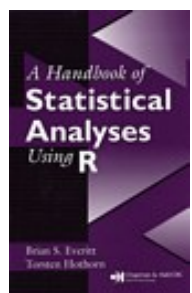
Edited by Steven C Amstrup, Trent L McDonald and Bryan FJ Manly  
Much-need practical handbook for scientists and conservationists capturing and analysing field data. ....

296 pages | 20 halftones, 6 line illus, 74 tables | Princeton UP  
Hbk | 2006 | 0691089671 | #154447A | **£65.00**

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Pbk | 2006 | 069108968X | #154448A | **£32.50**

**Add to basket**



**NEW** **A Handbook of Statistical Analyses Using R**

BS Everitt and Torsten Hothorn  
Doing for R what Everitt's other Handbooks have done for S-PLUS, STATA, SPSS, and SAS, A Handbook of Statistical Analyses Using R presents straightforward, self-contained ....

275 pages | - | CRC Press  
Pbk | 2006 | 1584885394 | #158605A | **£29.99**

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**NEW** **Hierarchical Modelling for the Environmental Sciences**  
**Statistical methods and applications**

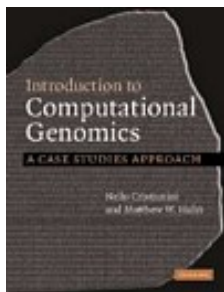
Edited by James S Clark and Alan Gelfand  
New statistical tools are changing the ways in which scientists analyze and interpret data and models. Many of these are emerging as a result of the wide availability of ....

205 pages | 73 line figures | OUP  
Hbk | 2006 | 0198569661 | #156251A | **£65.00**

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### Introduction to Computational Genomics

#### A Case Studies Approach

Nello Cristianini and Hahn Matthew W

Where did SARS come from? Have we inherited genes from Neanderthals? How do plants use their internal clock? The genomic revolution in biology enables us to answer such ....

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exs, 6 col figs | CUP  
Hbk | NYP 12/2006 | 0521856035 |  
#161645A | **£50.00**

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Pbk | NYP 12/2006 | 0521671914 |  
#161647A | **£24.99**

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**NEW**

### Introduction to Computer-Intensive Methods of Data Analysis in Biology

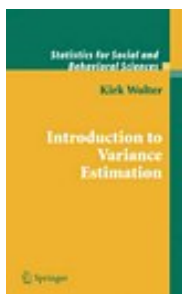
Derek Roff

This guide to the contemporary toolbox of methods for data analysis will serve graduate students and researchers across the biological sciences. Modern computational tools, ....

376 pages | 48 line diagrams, 30 tables  
| CUP

Hbk | 2006 | 0521846285 | #158724A |  
**£70.00** **Add to basket**

Pbk | 2006 | 0521608651 | #158725A |  
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**FORTHCOMING**

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Kirk Wolter

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490 pages | 5 illus | Springer  
Hbk | NYP 01/2007 | 038732917X |  
#161982A | **£50.00**

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**FORTHCOMING**

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150 pages | Springer  
Hbk | NYP 11/2006 | 0387376844 |  
#161964A | **£59.00**

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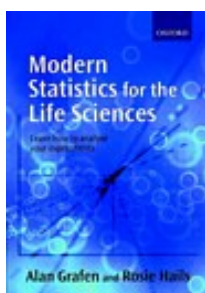


### Modern Applied Statistics with S

WN Venables and BD Ripley

Guide to using S-PLUS to perform statistical analyses and provides both an introduction to the use of S-PLUS and a course in modern statistical methods. ....

495 pages | Figs, tabs | Springer  
Hbk | 2002 | 0387954570 | #134594A |  
**£50.00** **Add to basket**



### Modern Statistics for the Life Sciences

#### Learn How to Analyse Your Experiments

Alan Grafen and Rosie Hails

Makes available to life science undergraduates methods such as model formulae and the General Linear Model, focusing on concepts such as marginality, random effects and ....

351 pages | Figs, tabs | OUP  
Pbk | 2002 | 0199252319 | #127751A |  
**£28.99** **Add to basket**



### Multivariate Analysis of Ecological Data using CANOCO

Jan Leps and Petr Smilauer

Particularly useful for students and researchers dealing with complex ecological problems, such as the variation of biotic communities with environmental conditions or ....

269 pages | Figs, tabs | CUP  
Hbk | 2003 | 052181409X | #136829A |  
**£75.00** [Add to basket](#)

Pbk | 2003 | 0521891086 | #136830A |  
**£29.99** [Add to basket](#)



### Multivariate Statistics for Wildlife and Ecology Research

K McGarigal, S Cushman and S Stafford

Provides the reader with a solid conceptual understanding of the use of multivariate statistics in ecological applications and the relationships among various techniques, ....

283 pages | Figs, tabs | Springer  
Hbk | 2000 | 0387988912 | #129476A |  
**£73.00** [Add to basket](#)

Pbk | 2000 | 0387986421 | #105654A |  
**£30.50** [Add to basket](#)



### Numerical Ecology

Louis Legendre and Pierre Legendre

Describes and discusses the numerical methods which are successfully being used for analysing ecological data, using a clear and comprehensive approach. These methods are ....

853 pages | Figs, tabs | Elsevier  
Pbk | 1998 | 0444892508 | #090495A |  
**£48.95** [Add to basket](#)

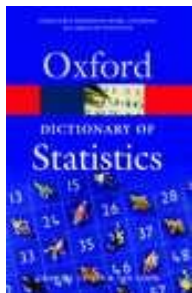
**NEW EDITION**

### The Oxford Dictionary of Statistical Terms

Edited by Yadolah Dodge

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, ....

512 pages | OUP  
Pbk | 2006 | 0199206139 | #159161A |  
**£12.99** [Add to basket](#)

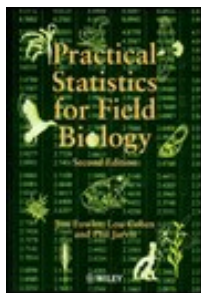


### Oxford Dictionary of Statistics

Graham Upton and Ian Cook

Containing over 1,700 entries on almost all aspects of statistics, this dictionary includes terms used in computing, mathematics, operational research, and probability. It ....

496 pages | - | OUP  
Pbk | 2006 | 0198614314 | #159051A |  
**£9.99** [Add to basket](#)



### Practical Statistics for Field Biology

Jim Fowler, Lou Cohen and Phil Jarvis

This book acknowledges the peculiarities of field-based data and its interpretation, and aims to provide biologists with sufficient grounding in statistical principles and ....

259 pages | Figs, tabs | Wiley  
Pbk | 1998 | 0471982962 | #075322A |  
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### Randomization, Bootstrap and Monte Carlo Methods in Biology

#### NEW EDITION

Bryan FJ Manly

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392 pages | Figs, tabs | Chapman & Hall (CRC Press)  
Hbk | 2006 | 1584885416 | #159428A |  
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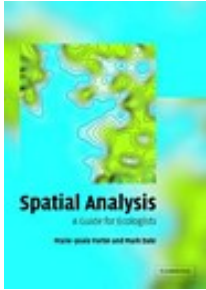
**NEW**

### Sampling for Natural Resource Monitoring

J de Gruijter, D Brus, MFP Bierkens and M Knotters

The book presents the statistical knowledge and methodology of sampling and data analysis useful for spatial inventory and monitoring of natural resources. The authors ....

332 pages | 91 illus | Springer  
Hbk | 2006 | 3540224866 | #157828A |  
**£100.00** [Add to basket](#)



### Spatial Analysis

#### A Guide for Ecologists

Marie-Josée Fortin and Mark Dale

The spatial and temporal dimensions of ecological phenomena have always been inherent in the conceptual framework of ecology, but only recently have they been incorporated ....

365 pages | 150 line diagrams, 20 tables | CUP  
Hbk | 2005 | 0521804345 | #152577A |  
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**NEW**

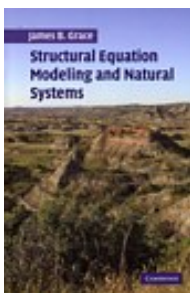
### Statistics Explained: an Introductory Guide for Life Scientists

Steve McKillup

Statistics Explained is a reader-friendly introduction to experimental design and statistics for undergraduate students in the life sciences, particularly those who do ....

267 pages | b/w illus | CUP  
Hbk | 2006 | 052183550X | #157125A |  
**£45.00** [Add to basket](#)

Pbk | 2006 | 0521543169 | #157126A |  
**£19.99** [Add to basket](#)



**NEW**

### Structural Equation Modeling and Natural Systems

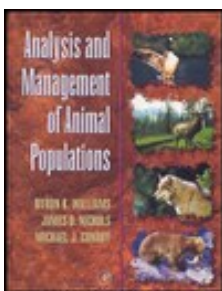
James B. Grace

There is growing recognition that ecological systems are so complex that major advances will only come as techniques are developed for analysing networks of variables, rather ....

365 pages | 130 line diagrams, 40 tables | CUP  
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## → Modelling

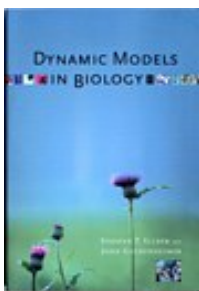


### Analysis and Management of Animal Populations

Byron K. Williams, Michael J. Conroy and James D. Nichols

The goal of this important volume is to link management, evaluation, and conservation to modeling, estimation, and decision-making methods. Four major sections review these ....

817 pages | Figs, tabs | Academic Press  
Hbk | 2001 | 0127544062 | #128108A |  
**£71.95** [Add to basket](#)



**NEW**

### Dynamic Models in Biology

Stephen P. Ellner and John Guckenheimer  
Major introduction to dynamic models. ....

329 pages | 10 halftones, 90 line illus, 15 tables | Princeton UP  
Hbk | 2006 | 0691118434 | #157925A |  
**£65.00** [Add to basket](#)

Pbk | 2006 | 0691125899 | #157924A |  
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### **FORTHCOMING** Ecological Niche Modeling

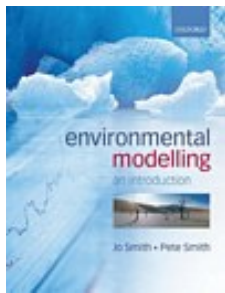
#### Ecoinformatics in Application to Biodiversity

David Stockwell

Through theory, applications, and examples of inferences, this book shows how to conduct and evaluate ecological niche modeling (ENM) projects in any area of application. It ....

216 pages | CRC Press  
Hbk | NYP 12/2006 | 1584884940 |  
#162394A | **£49.99**

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**FORTHCOMING** Environmental Modelling

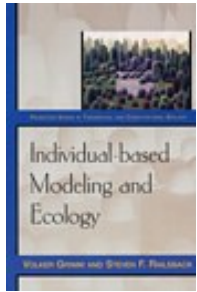
**An Introduction**

Jo Smith and Peter Smith

The global environment is a complex mix of interlinked processes, about which observation can tell us a great deal. But how can we use current observation to model ....

256 pages | - | OUP  
Pbk | NYP 02/2007 | 0199272069 | #160376A | **£24.99**

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**Individual-based Modeling and Ecology**

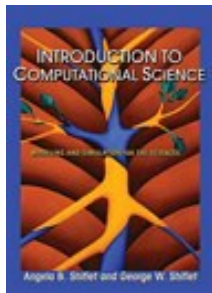
Volker Grimm and Steven F Railsback

Individual-based models are an exciting and widely used new tool for ecology. These computational models allow scientists to explore the mechanisms through which population ....

428 pages | 12 halftones, 34 line illus, 3 tables | Princeton UP

Hbk | 2005 | 0691096651 | #154445A | **£65.00** **Add to basket**

Pbk | 2005 | 069109666X | #154446A | **£32.50** **Add to basket**



**NEW** Introduction to Computational Science

**Modeling and Simulation for the Sciences**

Angela B Shiflet and George W Shiflet

Computational science is a quickly emerging field at the intersection of the sciences, computer science, and mathematics because much scientific investigation now involves ....

576 pages | 198 line illus, 62 tables | Princeton UP

Hbk | 2006 | 0691125651 | #157922A | **£45.00** **Add to basket**

**FORTHCOMING** Introduction to Modeling in Wildlife and Resource Management

**Introduction to Modeling in Wildlife and Resource Management**

Norman Owen-Smith

This book provides students with the skills to develop their own models for application in conservation biology and wildlife management. Assuming no special mathematical ....

208 pages | 20 illus | Blackwell  
Pbk | NYP 02/2007 | 1405144394 | #160889A | **£19.99**

**Add to basket**



**Model Selection and Multi-Model Inference**

**A Practical Information-Theoretic Approach**

David R Anderson and Kenneth P Burnham

Presents several new approaches to estimating model selection uncertainty and incorporating selection uncertainty into estimates of precision. ....

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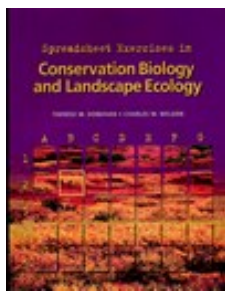
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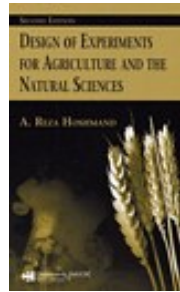


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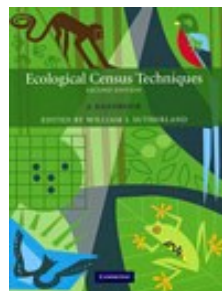
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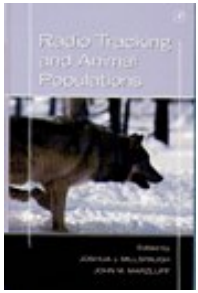
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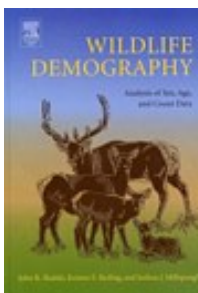


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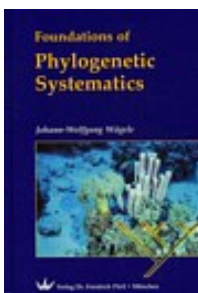
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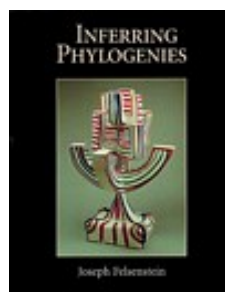
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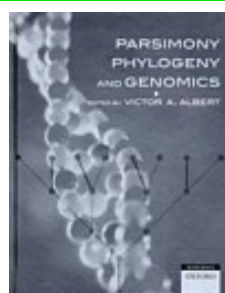


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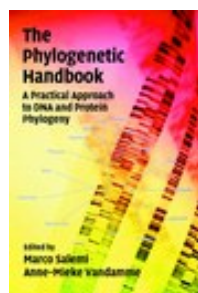


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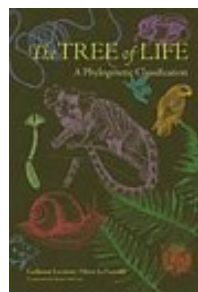
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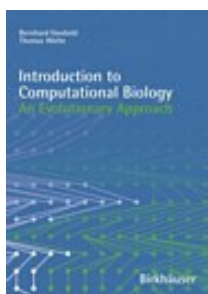
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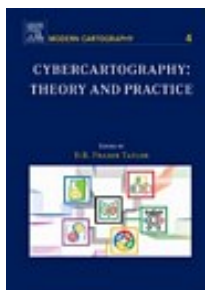
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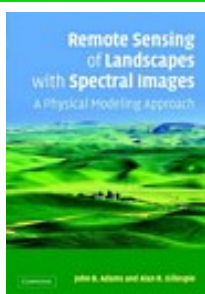
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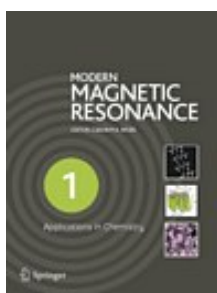
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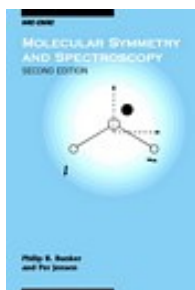
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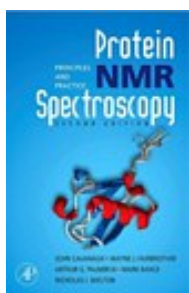


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