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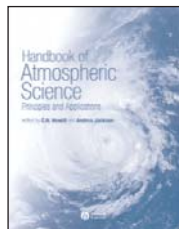
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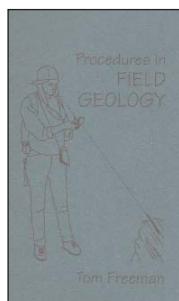
## Physical Processes in Earth and Environmental Sciences

MIKE R. LEEDER &  
MARTA PEREZ ARLUCEA

University of East Anglia; University of Vigo

**PHYSICAL PROCESSES OF EARTH, ATMOSPHERE AND OCEANS** provides an integrated approach to the study of Earth, Marine and Atmospheric Environmental Sciences, reflecting current trends in undergraduate courses. The text considers the various Earth Systems through a basic account of general physical properties, kinematics, forces and dynamics that cause flow transport and deformation. Natural examples of physical processes, rather than abstract physics and maths, are used throughout to illustrate the scientific principles involved.

256 PAGES / 270 ILLUSTRATIONS  
1-4051-0173-3 PB / DECEMBER 2005



FORTHCOMING IN 2006

## Peer Review and Manuscript Management in Scientific Journals

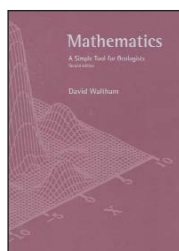
Guidelines for Good Practice

IRENE HAMES

University of York

**PEER REVIEW AND MANUSCRIPT MANAGEMENT IN SCIENTIFIC JOURNALS** is a practical introduction to a wide range of data analysis methods used by palaeontologists. Many of the operations carried out in journal editorial offices revolve around effective and timely peer review. This short book describes the best practice and shows how an effective review operation can be run. The book will be a good companion to the software package PAST and no previous knowledge of statistics or mathematics is required.

128 PAGES / 1-4051-3159-4 PB / MARCH 2006



## Handbook of Atmospheric Science

Principles and Applications

Edited by C.N. HEWITT & ANDREA JACKSON

University of Lancaster; University of Leeds

*"A highly impressive text... there is a wealth of information that can help understand the way our atmosphere works."*

BES TEACHING ECOLOGY GROUP NEWSLETTER

Written by a team of expert scientists, the **HANDBOOK OF ATMOSPHERIC SCIENCE** provides a broad and up-to-date account of our understanding of the natural processes that occur within the atmosphere. It examines how Man's activities have had a detrimental effect on the climate, and how measures may be implemented in order to modify these activities. The book progresses through chapters covering the principles of atmospheric science and the current problems of air pollution at the urban, regional, and global scales, to the tools and applications used to understand air pollution.

The **HANDBOOK OF ATMOSPHERIC SCIENCE** offers an excellent overview of this multidisciplinary subject and will prove invaluable to both students and researchers of atmospheric science, air pollution, and global change.

648 PAGES / 0-632-05286-4 HB / 2003

NEW IN 2005

## A Handbook of GIS

Edited by JOHN P. WILSON & STEWART FOTHERINGHAM

University of Southern California; University of Newcastle

This essential volume sets out the state of the art in the rapidly expanding field of GIS. It is aimed at students and researchers who want background information and more substance on a particular topic than is typically found in GIS textbooks. Each chapter is written by a recognized expert in a particular area and the book covers all the major topics within GIS.

The major trends and issues influencing the collection, organization, and dissemination of geographically-referenced data sets are explored, and the defining characteristics and limitations of the database solutions used in the major GIS products are reviewed. Major challenges and opportunities for using GIS to conduct spatial analysis modelling are considered, including the contributions of GIS to network analysis, terrain analysis, geostatistical analysis, and dynamic modelling. Contributing authors examine the ways in which GIS has been used to advance cartographic modelling and visualization, and they review the major tools and protocols that have been proposed to quantify error and manage uncertainty in various types of GIS applications.

SERIES: BLACKWELL COMPANIONS TO GEOGRAPHY  
496 PAGES / 1-4051-0795-2 HB / 1-4051-0796-0 PB / DECEMBER 2005

ALSO OF INTEREST

**Procedures in Field Geology**

TOM FREEMAN

128 PAGES / 0-86542-008-4 / 1999

**Mathematics: A Simple Tool for Geologists, Second Edition**

DAVID A. WALTHAM

208 PAGES / 0-632-05345-3 PB / 2000

## Terra Nova

Edited by **GEORGES CALAS,**  
**MAX COLEMAN, CARLO**  
**DOGLIONI, ALFRED KROENER &**  
**ADOLPHE NICOLAS**

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Testing the Limits of Global Change  
*Paul F. Hoffman and Daniel P. Schrag*
- ⑤ The Effects of Post-orogenic  
Extension on Different Scales:  
An Example from the Apennine-  
Maghrebide Fold-and-thrust Belt,  
SW Sicily  
*Enrico Tavarnelli, Pietro Renda, Valeria  
Pasqui and Mariano Tramutoli*
- ⑤ Short-term Environmental Changes  
in the Cretaceous Tethyan Ocean:  
Micropalaeontological Evidence  
from the Early Albian Oceanic  
Anoxic Event 1b  
*J. O. Herrle, J. Pross, O. Friedrich and  
Ch. Hemleben*
- ⑤ Insight into the Nature of Indian  
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*Michael R. W. Johnson*
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*I. Leifer and A. G. Judd*

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ISSN: 0954-4879  
VOLUME 17 (2005), 6 ISSUES A YEAR

## Geology Today

Edited by **PETER DOYLE**

**GEOLOGY TODAY** provides an essential read for all Earth Scientists - amateur and professional.

Articles and Features review topics of current interest in the Earth Sciences - written for the general reader by experts in the field.

News and Briefing columns report on news from the geological community, recent research that has appeared in the specialist journals, geological happenings and discoveries, and geological conferences.

Fossils Explained and Minerals Explained are two regular series looking at the origins, classification and identification of fossils and minerals.

Building Stones Explained is a new series introducing the most common stones used in the industry.

A lively Correspondence section allows readers to air and share their views and to respond to items appearing in the journal.

### SAMPLE CONTENTS

- ⑤ Kola Peninsula, Minerals and Mines  
*Francis Wall*
- ⑤ Astrobiology: The Search for Life  
beyond Earth  
*Monica Grady*
- ⑤ The Sedimentary Signature of  
Deserts and their Response to  
Environmental Change  
*Nigel Mountney*

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SOCIETY OF LONDON AND THE GEOLOGISTS'  
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ISSN: 0266-6979  
VOLUME 21 (2005), 6 ISSUES A YEAR

## The Island Arc

Edited by **AKIRA ISHIWATARI &**  
**SIMON R. WALLIS**

**THE ISLAND ARC** attracts an international audience with its prompt publication of peer-reviewed papers on the growing Earth Science research activities of the western Pacific Rim and Asia.

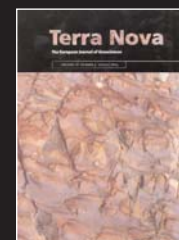
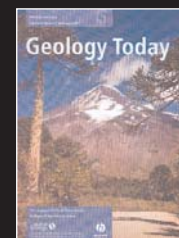
**THE ISLAND ARC** focuses on the structure, dynamics and evolution of plate convergence zones including trenches, island and continental arcs, back-arc basins and collision zones in modern and ancient settings. The journal also deals with topics that may not be specific to plate convergence zones but are fundamental to understanding them. Papers of immediate importance to other researchers, either by virtue of their new data, results or ideas are given priority publication.

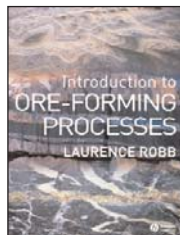
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GEOLOGISTS, PALAEONTOLOGICAL SOCIETY OF  
JAPAN AND THE SOCIETY OF RESOURCE GEOLOGY

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ISSN: 1038-4871  
VOLUME 14 (2005), 4 ISSUES A YEAR

### JOURNALS





NEW EDITION IN 2005

## Introduction to Mineral Exploration

Second Edition

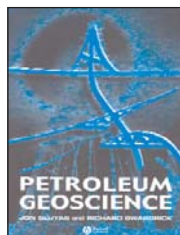
C.J. MOON, M.G. WHATELEY &amp; A.M. EVANS

University of Leicester; Rio Tinto Technical Services Limited; Formerly University of Leicester

Ores and industrial minerals are the foundation of our manufacturing and construction industries. Therefore, mineral exploration is a key area of economic geology. This updated edition of **INTRODUCTION TO MINERAL EXPLORATION** covers the nature of mineral exploration, including its economics, and the principal techniques employed in prospecting programs. It also goes further, to discuss the other factors and decisions essential to a successful exploration program: target evaluation and feasibility studies.

New to this edition is the inclusion of six in-depth studies of deposit types, selected for their variety and the different geochemical, geophysical and other problems they present to the mineral prospector. New chapters on handling mineral exploration data using computers and exploration for diamonds are also included.

416 PAGES / 1-4051-1317-0 PB / OCTOBER 2005



## Petroleum Geoscience

JON GLUYAS &amp; RICHARD SWARBRICK

Acorn Oil &amp; Gas Ltd &amp; University of Durham; University of Durham

**PETROLEUM GEOSCIENCE** is a comprehensive introduction to the application of geology and geophysics to the search for and production of oil and gas.

Uniquely, this book is structured to reflect the sequential and cyclical processes of exploration, appraisal, development, and production. Chapters dedicated to each of these aspects are further illustrated by case histories drawn from the authors' experiences. **PETROLEUM GEOSCIENCE** has a global and 'geotemporal' backdrop, drawing examples and case histories from around the world and from petroleum systems ranging in age from late Precambrian to Pliocene.

376 PAGES / 200 ILLUSTRATIONS / 0-632-03767-9 PB / 2003

## Introduction to Ore-Forming Processes

LAURENCE ROBB

University of Witwatersrand

### INTRODUCTION TO ORE-FORMING PROCESSES

**INTRODUCTION TO ORE-FORMING PROCESSES** is the first senior undergraduate / postgraduate textbook to focus specifically on the multiplicity of geological processes that result in the formation of mineral deposits.

Commencing with an overview of magmatic ore-forming processes, the text moves systematically through hydrothermal and sedimentary metallogenic environments, covering as it does the entire gamut of mineral deposit types, including the fossil fuels and supergene ores. The final chapter relates metallogeny to global tectonics by examining the distribution of mineral deposits in space and time. The text is punctuated with boxed examples of world famous ore deposits which provide context and relevance to the process-oriented descriptions of ore genesis. This book brings the discipline of economic geology back into the realm of conventional mainstream Earth science by emphasizing the fact that mineral deposits are simply one of the many natural wonders of geological process and evolution.

### INTRODUCTION TO ORE-FORMING PROCESSES

**INTRODUCTION TO ORE-FORMING PROCESSES** has been written as a core text for students in Earth science programs taking a course in economic geology, mineral deposits, or ore geochemistry, and for geologists working in mineral exploration, the mining industry, and related areas.

384 PAGES / 211 ILLUSTRATIONS  
0-632-06378-5 PB / APRIL 2004

## JOURNALS

## Geophysical Prospecting

Edited by R.E. WHITE

**GEOPHYSICAL PROSPECTING** publishes the best in primary research on the science of geophysics as it applies to exploration.



Drawing heavily on contributions from researchers in the oil and mineral exploration industries, the journal has a very practical slant. Although the journal provides a

valuable forum for communication among workers in these fields, it is also ideally suited to researchers in academic geophysics.

### SAMPLE CONTENTS

- ☉ Velocities of Compressional and Shear Waves in Limestones  
*S. Assefa, C. McCann and J. Sothcott*
- ☉ Automatic 1D Inversion of Multifrequency Airborne Electromagnetic Data with Artificial Neural Networks: Discussion and a Case Study  
*A. Ahl*
- ☉ Acoustic Properties of Sediments Saturated with Gas Hydrate, Free Gas and Water  
*D. Gei and J.M. Carcione*
- ☉ Airborne EM Footprints  
*D. Beamish*
- ☉ Multiple Attenuation: Coping with the Spatial Truncation Effect in the Radon Transform Domain  
*Y. Wang*

PUBLISHED ON BEHALF OF THE EUROPEAN  
ASSOCIATION OF GEOSCIENTISTS & ENGINEERS[www.blackwellpublishing.com/GPR](http://www.blackwellpublishing.com/GPR)

ISSN: 0016-8025, VOLUME 53 (2005), 6 ISSUES A YEAR

ONLINE FROM 2005

## Oil and Energy Trends

A Monthly Publication of International Energy Statistics and Analysis

Edited by MARK HESTER

Newly available online via Blackwell *Synergy* in 2005, **OIL AND ENERGY TRENDS** is the world's most comprehensive monthly source of energy information. Each issue gives up-to-date information for all major energy statistics, presented in a consistent format from a wide and constantly reviewed range of sources.

2004 saw the introduction of a new online supplement, *Global Energy Review*, available exclusively to **OIL AND ENERGY TRENDS** subscribers.

Recent reports have included:

- ⑨ The USA and the Quest for Energy Security
- ⑨ OPEC Crude Oil Production Capacity to 2010
- ⑨ Central Asia and the Trans-Caucasus

Visit the website to access *World Energy Review* and the *OET* database.

The **OIL AND ENERGY TRENDS** database holds information from nearly every country and all regions around the world, including smaller countries in the Developing World as well as larger producers in the OECD.

Statistical tables are also supplied to all subscribers on disk for direct entry into spreadsheets.

PUBLISHED BY BLACKWELL ENERGY RESEARCH

[www.oilandenergytrends.com](http://www.oilandenergytrends.com)

0950-1045, VOLUME 30 (2005), 12 ISSUES A YEAR

## OPEC Review

Energy Economics and Related Issues

Edited by OMAR FAROUK IBRAHIM & KEITH MARCHANT

The **OPEC REVIEW** publishes a selection of original analytical papers on energy economics and related issues, such as economic development and the environment. It provides a forum for information exchange among academics worldwide and the general enhancement of research. Publication of the journal also underlines OPEC's long-standing commitment to fostering a deeper understanding of energy matters and their impact upon the world economy and the welfare of individual nations.

### SAMPLE CONTENTS

- ⑨ Price Elasticity of Demand for Crude Oil: Estimates for 23 Countries  
*John C.B. Cooper*
- ⑨ The US Gasoline Situation and Crude Oil Prices  
*OPEC Secretariat*
- ⑨ Russia's Oil Potential: Prospects and Implications  
*Gawdat Bahgat*

PUBLISHED ON BEHALF OF THE OPEC SECRETARIAT IN VIENNA

[www.blackwellpublishing.com/OPEC](http://www.blackwellpublishing.com/OPEC)

ISSN: 0277-0180, VOLUME 29 (2005), 4 ISSUES A YEAR

## Oil & Energy Trends: Annual Statistical Review

Edited by MARK HESTER

**OIL AND ENERGY TRENDS: ANNUAL STATISTICAL REVIEW** is an invaluable resource, representing the most comprehensive country-by-country analysis of energy data now published. It brings together in a convenient form the most important quantitative data on all the main aspects of the world oil trade, including both statistical highlights and a review of major events of the year in the oil and energy field.

PUBLISHED BY BLACKWELL ENERGY RESEARCH

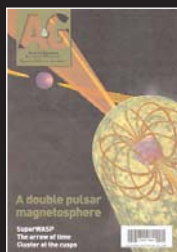
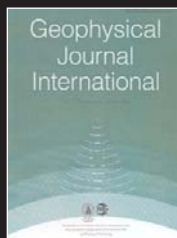
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ISSN: 0953-1033, VOLUME 26 (2005), 1 ISSUE A YEAR

### JOURNALS







## Geophysical Journal International

Edited by J.R. EVANS

### GEOPHYSICAL JOURNAL

**INTERNATIONAL** is the foremost solid Earth geophysics journal. The Board of Editors is international in representation and likewise, contributions come from all over the world. The journal aims to promote the understanding of the Earth's internal structure, physical properties, evolution and processes; it publishes top quality research papers, fast-track papers, research notes, letters and book reviews on all aspects of theoretical, computational, applied and observational geophysics and planetary science.

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VOLUMES 160 (2005)  
12 ISSUES A YEAR

## Astronomy & Geophysics

Edited by S. BOWLER

**A & G** is a journal for the publication of serious scientific papers on a range of subjects within the remit of the Royal Astronomical Society: astronomy, astrophysics, cosmology, planetary science, solar-terrestrial physics, global and regional geophysics and the history of these topics. **A & G** also focuses on topical items, reports of meetings, science in the news and acts as a forum for discussion of all matters of interest to professional astronomers and geophysicists.

### SAMPLE CONTENTS

- ☉ The Story of Galaxy Evolution in Full Colour  
*Richard S. Ellis, Roberto G. Abraham, Jarle Brinchmann and Felipe Menanteau*
- ☉ Martian Oceans, Valleys and Climate  
*Michael H. Carr*
- ☉ The Expansion Rate of the Universe  
*Wendy Freedman*
- ☉ Cosmology: A Matter of All and Nothing  
*John D. Barrow*

PUBLISHED ON BEHALF OF THE ROYAL ASTRONOMICAL SOCIETY

A SUBSCRIPTION TO **ASTRONOMY & GEOPHYSICS** IS INCLUDED IN MEMBERSHIP OF THE ROYAL ASTRONOMICAL SOCIETY. FOR INFORMATION ON MEMBERSHIP PLEASE VISIT [WWW.RAS.ORG.UK](http://WWW.RAS.ORG.UK).

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blackwellpublishing.com/AAG

ISSN: 1366-8781  
VOLUME 46 (2005), 6 ISSUES A YEAR

## Monthly Notices of the Royal Astronomical Society

Edited by A.C. FABIAN

**MONTHLY NOTICES** is one of the world's leading primary research journals in astronomy and astrophysics, as well as one of the longest established. It publishes the results of original research in positional and dynamical astronomy, astrophysics, radio astronomy, cosmology, space research and the design of astronomical instruments.

**MONTHLY NOTICES** welcomes submissions from astronomers world-wide; two thirds of its content originates from outside the UK. It is run entirely by astronomers and, receiving no financial support, makes its decision to publish only on scientific judgements. Papers are rigorously refereed and fully linked to the ADS database, so they have a high impact.

### SOMETHING NEW FOR 2005

#### MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY: LETTERS

**MONTHLY NOTICES** will include a new online supplement from 2005; **MONTHLY NOTICES LETTERS**.

Articles in the Letters section will be:

- ☉ Short, topical and significant
- ☉ Handled by the Monthly Notices team of Editors and externally reviewed
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This enables us to provide you with the fastest possible quality publication, the widest dissemination and the greatest impact.

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ISSN: 0035-8711  
VOLUMES 356-364 (2005), 3 TIMES A MONTH

## Tellus A

Dynamic Meteorology and Oceanography

Edited by H. LEJENÄS

**TELLUS SERIES A** publishes original articles, short contributions and correspondence on dynamic meteorology, climatology and oceanography, including numerical modelling, synoptic meteorology, weather forecasting and climate analysis.

### SAMPLE CONTENTS

- ☉ Climate of the Last Millennium: A Sensitivity Study  
*C. Bertrand, M. Loutre, M. Crucifix and A. Berger*
- ☉ Combining Dynamical and Statistical Ensembles  
*M.S. Roulston and L.A. Smith*
- ☉ Spatial Hierarchy in Arctic Sea Ice Dynamics  
*S.L. McNutt and J.E. Overland*

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SWEDISH GEOPHYSICAL SOCIETY

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ISSN: 0280-6495  
VOLUME 57 (2005), 6 ISSUES A YEAR



## Tellus B

Chemical and Physical Meteorology

Edited by H. RODHE

**TELLUS SERIES B** publishes original articles, short contributions and correspondence on air chemistry, surface exchange processes, long-range and global transport, aerosol science and cloud physics including related radiation transfer. Biogeochemical cycles including related aspects of marine chemistry and geochemistry also represent a central theme.

### SAMPLE CONTENTS

- ☉ Comparative Ecosystem-atmosphere Exchange of Energy and Mass in a European Russian and a Central Siberian Bog II. Interseasonal and Interannual Variability of CO<sub>2</sub> Fluxes  
*A. Arneth, J. Kurbatova, O. Kolle, O. Shibistova, J. Lloyd, N. Vygodskaya and E. Schulze*
- ☉ Seasonal and Annual Variations in the Photosynthetic Productivity and Carbon Balance of a Central Siberian Pine Forest  
*J. Lloyd, O. Shibistova, D.I. Zolotoukhine, O. Kolle, A. Arneth, C. Wirth, J. Styles, N. Tchebakova and E. Schulze*

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ISSN: 0280-6509  
VOLUME 57 (2005), 6 ISSUES A YEAR

## An Introduction to Geophysical Exploration

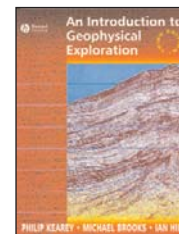
Third Edition

PHILIP KEAREY, MICHAEL BROOKS & IAN HILL

University of Bristol; The Geological Society; University of Leicester

*"This is an excellent book and no doubt will continue to be recommended for many undergraduate courses."*

GEOLOGICAL MAGAZINE



The new edition of this classic text provides a general but comprehensive introduction to the most important methods and techniques of geophysical exploration. These methods represent a primary tool for investigation of the subsurface and are applicable to a very wide range of problems. This new edition incorporates many suggestions made by users of the second edition and covers all the major advances and developments in exploration geophysics. The text has been revised and updated with several chapters being completely rewritten and a new chapter on ground penetrating radar has been included.

288 PAGES / 267 ILLUSTRATIONS / 0-632-04929-4 PB / 2002

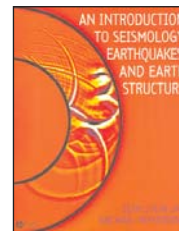
## An Introduction to Seismology, Earthquakes, and Earth Structure

SETH STEIN & MICHAEL WYSESSON

Northwestern University; Washington University

*"This outstanding book is without equal, and it will endure for many years as an indispensable reference for Earth scientists and engineers as well as a great resource for students."*

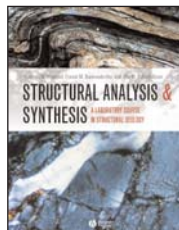
CHOICE



**AN INTRODUCTION TO SEISMOLOGY, EARTHQUAKES AND EARTH STRUCTURES** is an introduction to seismology and its role in the Earth sciences, and is written for advanced undergraduate and beginning graduate students.

The fundamentals of seismic wave propagation are developed using a physical approach and then applied to show how refraction, reflection, and teleseismic techniques are used to study the structure and thus the composition and evolution of the Earth. The book shows how seismic waves are used to study earthquakes and are integrated with other data to investigate the plate tectonic processes that cause earthquakes. Figures, examples, problems, and computer exercises teach students about seismology in a creative and intuitive manner. Necessary mathematical tools including vector and tensor analysis, matrix algebra, Fourier analysis, statistics of errors, signal processing, and data inversion are introduced with many relevant examples. The text also addresses the fundamentals of seismometry and applications of seismology to societal issues. Special attention is paid to help students visualize connections between different topics and view seismology as an integrated science.

512 PAGES / 564 ILLUSTRATIONS / 0-86542-078-5 PB / 2002



NEW IN 2005

## Structural Analysis and Synthesis

A Laboratory Course in Structural Geology

Third Edition

STEVE ROWLAND, ERNEST DUEBENDORFER &amp; ILSA SCHIEFELBEIN

University of Nevada; Northern Arizona University; University of Nevada

This widely used, highly readable manual is designed for the laboratory part of an undergraduate course in structural geology.

A unique feature of this book is the use throughout the book of one engaging geologic map from a mythical place - the Bree Creek Quadrangle. Students learn to analyze various aspects of the geologic structures exposed within this quadrangle, and ultimately they combine these analyses into a grand synthesis.

312 PAGES / 1-4051-1652-8 PB / DECEMBER 2005

## Tectonic Geomorphology

DOUGLAS W. BURBANK &amp; ROBERT S. ANDERSON

University of California, Santa Barbara; University of Colorado at Boulder

*"Let me end by highly praising this important book, complimenting the authors and urging all geoscientists to have a copy on their shelves."*

GEOLOGICAL MAGAZINE

**TECTONIC GEOMORPHOLOGY** reviews the fundamentals of the subject which include the nature of faulting and folding, the creation and use of geomorphic markers for tracing deformation, chronological techniques which date deformation, geodetic techniques for defining recent deformation, and paleoseismologic approaches to calibrate past deformation. The overall focus of **TECTONIC GEOMORPHOLOGY** is on new interpretations of landform evolution and insights on the interplay between surface processes and tectonics that emerge from integrative studies. The authors have developed an up-to-date interpretation of landscapes in tectonically active environments for upper-level undergraduate and graduate Earth science students and practicing geologists.

288 PAGES / 222 ILLUSTRATIONS / 0-632-04386-5 PB / 2000

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University of Bristol; University of East Anglia

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JOURNAL OF GEOLOGICAL EDUCATION

344 PAGES / 0-86542-924-3 PB / 1996

JOURNALS

## Journal of Metamorphic Geology

Edited by MICHAEL BROWN,  
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& ROGER POWELL

This title, published nine times a year, encompasses the entire range of metamorphic studies, from the scale of



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structural geology, the **JOURNAL OF METAMORPHIC GEOLOGY** remains as innovative today as it was when it began seventeen years ago. Read by students and researchers alike, the **JOURNAL OF METAMORPHIC GEOLOGY** is at the forefront of international geological research.

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- ⑤ Eclogites from the South Tianshan, NW China: Petrological Characteristic and Calculated Mineral Equilibria in the  $\text{Na}_2\text{O}-\text{CaO}-\text{FeO}-\text{MgO}-\text{Al}_2\text{O}_3-\text{SiO}_2-\text{H}_2\text{O}$  System  
*C. J. Wei, R. Powell and L. F. Zhang*
- ⑤ High-pressure Granulites: Formation, Recovery of Peak Conditions and Implications for Tectonics  
*P. J. O'Brien and J. Rötztler*

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ISSN: 0263-4929

VOLUME 23 (2005), NINE ISSUES A YEAR



## Sedimentology

Edited by PETER HAUGHTON,  
ISABEL MONTANEZ, CHRISTOPH  
SPOTL & PAUL CARLING

**SEDIMENTOLOGY** has a broad remit, publishing papers in many areas of sedimentology, sedimentary geology and sedimentary geochemistry. Over the last few years, the journal has published ground-breaking articles on experimental and theoretical grain transport, sequence stratigraphy, stable isotope geochemistry, palaeosols, modern continental sediment fluxes, palaeosols, modern and ancient sedimentation, diagenesis, and sediment-organism interaction.

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*Janok P. Bhattacharya and Liviu Giosan*
- ⑤ Microbial Carbonates: The Geological Record of Calcified Bacterial-algal Mats and Biofilms  
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- ⑤ Anatomy of Shelf Deltas at the Edge of a Prograding Eocene Shelf Margin, Spitsbergen  
*Donatella Mellere, Piret Plink-Björklund and Ronald Steel*
- ⑤ Quantitative Models of Sedimentary Basin Filling  
*Chris Paola*

THE JOURNAL OF THE INTERNATIONAL ASSOCIATION OF  
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ISSN: 0037-0746, VOLUME 52 (2005), 6 ISSUES A YEAR

## Basin Research

Edited by HUGH D. SINCLAIR,  
JOE CARTWRIGHT & PETER DECELLES

**BASIN RESEARCH** publishes original research papers on sedimentary basins. The journal offers new forum for discussion of the interacting elements of basins ranging from their headwaters to their depocentres, in a diverse array of tectonic and climatic settings.

### SAMPLE CONTENTS

- ⑤ Tectono-sedimentary Evolution of Active Extensional Basins  
*R.L. Gawthorpe and M.R. Leeder*
- ⑤ Subsidence Analyses from the Betic Cordillera, Southeast Spain  
*D. Hanne, N. White and L. Lonergan*
- ⑤ Seismic Reflection Imaging of Active Offshore Faults in the Gulf of Corinth: Their Seismotectonic Significance  
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- ⑤ The Long-term Thermal Consequences of Rifting: Implications for Basin Reactivation  
*M. Sandiford, S. Frederiksen and J. Braun*
- ⑤ Frontal Accretion and Thrust Wedge Evolution under Very Oblique Plate Convergence: Fiordland Basin, New Zealand  
*P.M. Barnes, B. Davy, R. Sutherland and J. Deltell*

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ISSN: 0950-091X, VOLUME 17 (2005), 4 ISSUES A YEAR

## Practical and Theoretical Geoarchaeology

PAUL GOLDBERG,  
RICHARD MACPHAIL &  
WENDY MATTHEWS

Boston University; University College,  
London; University of Reading

Geoarchaeology has, within the past two decades, become a fundamental discipline in both archaeology and the environmental sciences.

Archaeologists recognise that sediments and stratigraphy provide the ultimate context for the artefacts and features that they excavate. At the same time, Quaternary and Holocene paleoenvironmental reconstruction requires an understanding of the interaction between humans and the sites and landscapes they inhabited.

This important new text sets out the fundamental concepts and scientific principles that form the basis for geoarchaeology, describes field methodology and provides readers with illuminating case studies from North America, Europe and the Middle East. It will be essential reading for archaeology, physical geography and environmental science undergraduates worldwide who are studying geoarchaeology or landscape evolution and reconstruction.

352 PAGES / 250 ILLUSTRATIONS  
0-632-06044-1 PB / DECEMBER 2005





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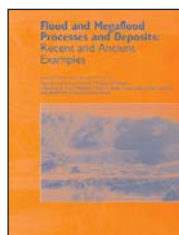
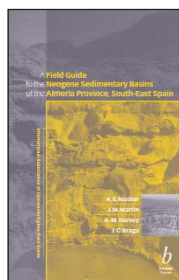
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Edited by **MICHAEL BLUM, SUSAN MARRIOTT & SUZANNE LECLAIR**

Louisiana State University; University of the West of England; Tulane University

The twenty-nine papers in this volume reflect the topical and geographic diversity of exciting research conducted by fluvial sedimentologists at the beginning of the 21st century. Themes represented in this volume include: flow, sediment transport, and bedform dynamics; characteristics of modern fluvial landforms, environments and systems; physical analogue and numerical modeling of fluvial systems; the responses of Quaternary fluvial systems to climate change, active tectonics, and/or sea-level change; and characteristics of pre-Quaternary fluvial deposits and evolution of pre-Quaternary fluvial systems.

SERIES: INTERNATIONAL ASSOCIATION OF  
SEDIMENTOLOGISTS  
592 PAGES / 1-4051-2651-5 PB / **FEBRUARY 2005**



## Flood and Megaflood Processes and Deposits

Recent and Ancient Examples

Edited by **I. PETER MARTINI, VICTOR R. BAKER & G. GARZON**

University of Guelph; University of Arizona; Universidad Complutense

*"This book is well presented and structured... a fascinating collection of papers... recommended to anyone working on fluvial deposits, fans or fluvioglacial material, or who just wants to be impressed with what megafloods can do, as there are some excellent illustrations."*

THE HOLOCENE

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SEDIMENTOLOGISTS SERIES  
320 PAGES / 0-632-06404-8 PB / **2002**

## Precambrian Sedimentary Environments

A Modern Approach to Ancient Depositional Systems

Edited by **WLADYSŁAW ALTERMANN & PATRICIA CORCORAN**

Ludwig Maximilians Universität, München; University of Quebec

### PRECAMBRIAN SEDIMENTARY ENVIRONMENTS

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SERIES: INTERNATIONAL ASSOCIATION OF  
SEDIMENTOLOGISTS SERIES  
464 PAGES / 0-632-06415-3 PB / **2002**

## Clay Mineral Cements in Sandstones

Edited by **RICHARD WORDEN & SADOON MORAD**

University of Liverpool; University of Uppsala

In this volume, clay minerals in sandstones are reviewed in terms of their mineralogy and general occurrence, their stable and radiogenic isotope geochemistry, XRD quantification, their effects on the petrophysical properties of sandstones and their relationships to sequence stratigraphy and palaeoclimate.

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SEDIMENTOLOGISTS SERIES  
520 PAGES / 1-4051-0587-9 PB / **2002**

## A Field Guide to the Neogene Sedimentary Basins of the Almería Province, South-East Spain

Edited by **ANNE MATHER, JOSE M. MARTIN, ADRIAN HARVEY & JAN C. BRAGA**

University of Plymouth; Universidad de Granada; University of Liverpool; Universidad de Granada

This field guide provides an up-to-date and integrated approach to the geology and geomorphology of Almería Province, compiled by active scientific researchers in the region.

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SEDIMENTOLOGISTS SERIES  
368 PAGES / 0-632-05919-2 PB / **2001**

## Sandstone Diagenesis

Recent and Ancient

Edited by **STUART BURLEY & RICHARD WORDEN**

BG Group; University of Liverpool

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Edited by CHRIS PERRY & KEVIN TAYLOR

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1-4051-1515-7 / SEPTEMBER 2006

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Edited by DOMINIC EMERY & KEITH MYERS

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NIGEL H. WOODCOCK & ROB A. STRACHAN

432 PAGES / 0-632-03656-7 PB / 2000

## Principles of Stratigraphy

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**PRINCIPLES OF STRATIGRAPHY** reaffirms the vital importance of stratigraphy to the Earth sciences, and introduces the undergraduate to its key elements in a lively and interesting fashion.

In Part I the author outlines key concepts including the foundations of sedimentology and sedimentary environments. Part II elucidates the basic principles of stratigraphic analysis, while Part III shows how stratigraphy is used in understanding sedimentary basin evolution, the interplay between tectonics and sedimentation, paleoenvironmental reconstruction, paleoclimatology, and the geologic history of other planets. There is also a chapter devoted to 'problem' periods in Earth history, where both the strengths and limitations of stratigraphic methods are illustrated.

340 PAGES / 362 ILLUSTRATIONS  
1-4051-1164-X PB / 2003

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NATURE

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608 PAGES / 0-632-04976-6 PB / 1999

NEW

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Principles and Applications

Second Edition

PHILIP A. ALLEN & JOHN R. ALLEN

Swiss Federal Institute of Technology (ETH); BHP Billiton, Melbourne

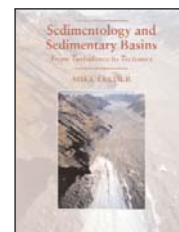
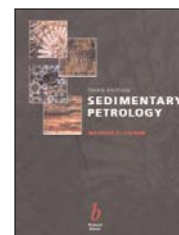
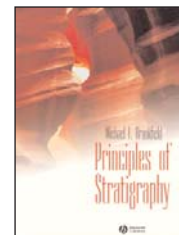
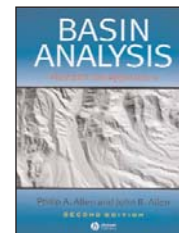
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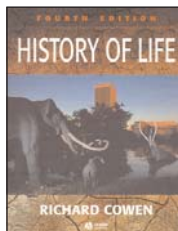
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- ⑤ Expansion of the techniques used in approaching problems in basin analysis
- ⑤ Updated chapters on subsidence analysis and measurements of thermal maturity of organic and nonorganic components of basin-fill
- ⑤ New material on thermochronological and exposure dating tools
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Visit: [www.erdw.ethz.ch/allen](http://www.erdw.ethz.ch/allen) for practical exercises related to problems in **BASIN ANALYSIS**. To run the programs you will need a copy of Matlab 6 or 7.

560 PAGES / 365 FIGURES  
0-632-05207-4 PB / DECEMBER 2004





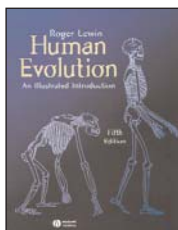
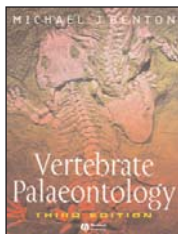
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*University of California, Davis*

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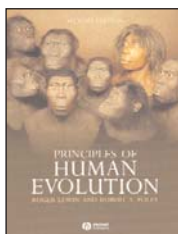


Also new to this edition is a dedicated website, [www.blackwellpublishing.com/cowen](http://www.blackwellpublishing.com/cowen) which explores additional environmental factors and supplemental topics, and provides interactive exercises, a detailed glossary, key links and all art in downloadable form. The art is also available to instructors on CD-ROM in PowerPoint and Jpeg formats.

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285 FIGURES; 65 HALFTONES

1-4051-1756-7 PB / **AUGUST 2004**



## Fossils at a Glance

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*Liverpool John Moores University; University of Edinburgh*

**FOSSELS AT A GLANCE** is written for students taking an introductory level course in paleontology. Short chapters introduce the main topics in the modern study of fossils. The most important fossil groups are discussed, from microfossils through invertebrates to vertebrates and plants, followed by a brief narrative of life on Earth.



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The book has a strong phylogenetic focus making it an up-to-date source of the latest broad-scale systematic data on vertebrate evolution.

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0-632-05637-1 PB / **OCTOBER 2004**

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An Illustrated Introduction

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1-4051-0378-7 PB / **JULY 2004**

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*Harvard University; University of Cambridge*

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NEW

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MARTIN BRASIER

University of Durham; University of Oxford

**MICROFOSSILS** is the definitive guide to all the major microfossil groups. In recent years a greater understanding of species' concepts and stratigraphical ranges, advances in the completeness of the microfossil record and the advent of molecular techniques in classification have led to major changes in the classification and applications of microfossils. This new edition of **MICROFOSSILS** has been restructured and rewritten to take into account these significant advances to provide a complete guide to taxonomy, phylogeny, ecology and palaeoecology of microfossils and their applications.

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0-632-05279-1 PB / DECEMBER 2004

## The Cambrian Fossils of Chengjiang, China

The Flowering of Early Animal Life

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ALDRIDGE, JAN BERGSTRÖM,  
DAVID J. SIVETER, DEREK J.  
SIVETER & FENG XIANG-HONG

Yunnan University; University of Leicester;  
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*"This beautifully produced book...  
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NATURE

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1-4051-0673-5 HB / 2003

NEW IN 2005

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Edited by NORMAN MACLEOD  
& ANDREW HENDERSON

Natural History Museum

Visual recognition of key taxa forms the main foundation of advanced undergraduate and postgraduate courses in micropalaeontology, but departments find it difficult to assess sufficient numbers of good-quality specimens for teaching purposes. There is thus a need for a comprehensive set of microfossil images that can be used for teaching purposes. **PALEOBASE MICROFOSSILS** on CD-ROM provides such an image library with over 1000 images and in the addition of a combined database of relevant micropalaeontological data such as biostratigraphic range, ecology, synonymy, etc. This CD-ROM can be used as a supplement to the textbook *Microfossils* by Brasier and Armstrong or as a stand-alone resource.

0-632-05442-5 CD-ROM / DECEMBER 2005

NEW IN 2005

## PaleoBase: Deep Sea Benthic Foraminifera

ANNE HOLBOURN, NORMAN MACLEOD  
& ANDREW S. HENDERSON

Christian Albrechts Universität, Kiel; Natural History Museum

This CD-ROM presents the latest taxonomic revision for 300 species in the form of a state-of-the-art, illustrated, relational database. Relying primarily on material collected by the Deep-Sea Drilling Project (DSDP) and Ocean Drilling Programme (ODP) for examples of characteristic deep-sea species, and containing color, digital composite illustrations of unprecedented accuracy, this database represents a significant step forward in the presentation of systematic information in general, and microfossil systematics in particular. For the first time, consistent and reliable information for each species morphology, taxonomy, synonymy, bathymetry, paleoecology, chronostratigraphy, biostratigraphy is summarized in one place and in a searchable format. In addition, the database contains a morphological key for each species and citations to over 350 references from the primary scientific literature.

1-4051-0303-5 CD-ROM / JUNE 2005

## PaleoBase: Macrofossils

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*"PaleoBase has been designed with great thought and attention to detail... it very effectively illustrates the practical aspects of working with fossils and would make excellent reference material for supporting a taught course."*

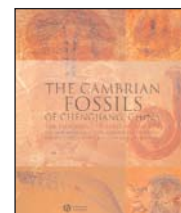
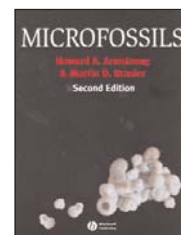
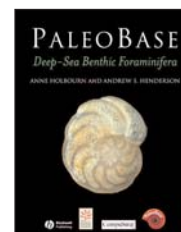
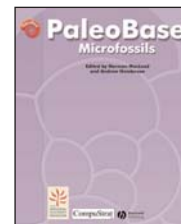
JOURNAL OF BIOLOGICAL EDUCATION

**PALEOBASE** provides an important new tool for teaching in a wide variety of undergraduate and graduate courses in palaeontology. Instructors will find the database a rich source for lecturer presentations, discussions and computer based exercises. Students will find **PALEOBASE** an invaluable - and affordable - addition to traditional textbooks, and key reference source. Key features include:

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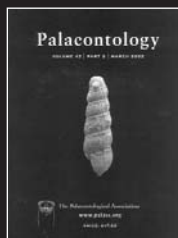
For an online demonstration and guided tour of **PALEOBASE: MACROFOSSILS** please visit [www.paleobase.com](http://www.paleobase.com).

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## JOURNALS



## NEW A4 FORMAT &amp; LAYOUT

## Palaentology

Edited by D.J. BATTEN

The journal publishes a wide variety of papers on palaeontological topics covering: palaeozoology, palaeobotany, systematic studies, palaeoecology, micropalaeontology, palaeobiogeography, functional morphology, stratigraphy, taxonomy, taphonomy, palaeoenvironmental reconstruction, palaeoclimate analysis and biomineralization studies.

## SAMPLE CONTENTS

- ⑤ A Tyrannosauroid Dinosaur from the Upper Jurassic of Portugal  
*Oliver W. M. Rauhut*
- ⑤ Functional Adaptations of the Postcranial Skeleton of Two Miocene Borhyaenoids (Mammalia, Metatheria), *Borhyaena* and *Prothylacinus*, from South America  
*Christine Argot*
- ⑤ The Early Silurian Brachiopod *Eocoelia* from the Hudson Bay Basin, Canada  
*Jisuo Jin*
- ⑤ Revision and Re-evaluation of the Early Jurassic Dinosaurian Ichnogenus *Otozoum*  
*Emma C. Rainforth*
- ⑤ Cranial Anatomy and Palaeobiology of the Miocene Marsupial *Hondalagus Altiplanensis* and a Phylogeny of Argyrolagids  
*Marcelo R. Sánchez-Villagra, Richard F. Kay and Federico Anaya-Daza*

PUBLISHED ON BEHALF OF THE  
PALAEOONTOLOGICAL ASSOCIATION

[www.blackwellpublishing.com/PALA](http://www.blackwellpublishing.com/PALA)

ISSN: 0031-0239  
VOLUME 48 (2005), 6 ISSUES A YEAR

## NOW IN ITS THIRD VOLUME

## Geobiology

Edited by KURT KONHAUSER

**GEOBIOLOGY** aims to provide a natural home for geobiological research, allowing the cross-fertilization of critical ideas, and promoting cooperation and advancement in this emerging field. We also aim to provide you with a forum for the rapid publication of your results in an international journal of high standing. We are particularly interested in papers crossing disciplines and containing both geological and biological elements.

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## SAMPLE CONTENTS

- ⑤ The Geological Consequences of Evolution  
*A.H. Knoll*
- ⑤ Geobiological Analysis using Whole Genome-based Tree Building Applied to the Bacteria, Archaea, and Eukarya  
*C.H. House, B. Runnegar and S.T. Fitz-Gibbon*
- ⑤ Sulphate-reducing Bacteria Induce Low-temperature Ca-dolomite and High Mg-calcite Formation  
*Y. Van Lith, R. Warthmann, C. Vasconcelos and J.A. Mckenzie*

[www.geobiol.com](http://www.geobiol.com)

ISSN: 1472-4677  
VOLUME 3 (2005), 4 ISSUES A YEAR

## Evolution and Development

Edited by RUDOLF A. RAFF

**EVOLUTION & DEVELOPMENT** serves as a voice for the rapidly growing research community at the interface of evolutionary and developmental biology. The exciting re-integration of these two fields, after almost a century's separation, holds much promise as the focus of a broader synthesis of biological thought. **EVOLUTION & DEVELOPMENT** publishes works that address the evolution/development interface from a diversity of angles.

## SAMPLE CONTENTS

- ⑤ Expression of Enhancers is Altered in *Drosophila Melanogaster* Hybrids  
*Bárbara Hämmerle and Alberto Ferrús*
- ⑤ Mutants Highlight the Modular Control of Butterfly Eyespot Patterns  
*Antonia Monteiro, Joop Pijls, Minka Bax, Thomas Hakkart and Paul M. Brakefield*
- ⑤ An Amphioxus Nodal Gene (AmphiNodal) with Early Symmetrical Expression in the Organizer and Mesoderm and Later Asymmetrical Expression Associated with Left-right Axis Formation  
*Jr-Kai Yu, Linda Z. Holland and Nicholas D. Holland*

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ISSN: 1520-541X  
VOLUME 7 (2005), 6 ISSUES PER YEAR

## Natural Resources Forum

Edited by **MARCIA M. BREWSTER**

**NATURAL RESOURCES FORUM** focuses on international, multidisciplinary issues related to sustainable development and management of natural resources, mainly in developing countries. The journal seeks to examine subjects of current global concern and stimulate

discussion in an effort to identify socio-economic policy options that promote sustainable development of water, energy, minerals and other natural resources. The journal reflects the increasing importance of social and economic policies in addressing natural resources challenges.



### SAMPLE CONTENTS

- ⑤ The Decline of a Regional Fishing Nation: The Case of Ghana and West Africa  
*John Atta-Mills, Jackie Alder and Ussif Rashid Sumaila*
- ⑤ Irrigation Water Management Policies: Allocation and Pricing Principles and Implementation Experience  
*Ariel Dinar and Jyothsna Mody*
- ⑤ Rice versus Fish Revisited: On the Integrated Management of Floodplain Resources in Bangladesh  
*Bhavani Shankar, Ashley Halls and Julian Barr*

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[www.blackwellpublishing.com/NRF](http://www.blackwellpublishing.com/NRF)

ISSN: 0165-0203

VOLUME 29 (2005), 4 ISSUES A YEAR

### NEW IN 2005

## Introduction to Geomicrobiology

**KURT KONHAUSER**

*University of Alberta*

**INTRODUCTION TO GEOMICROBIOLOGY** is a timely and comprehensive overview of how microbial life has affected Earth's environment through time. It shows how the ubiquity of microorganisms, their high chemical reactivity, and their metabolic diversity make them the most significant biological factor controlling the chemistry of our planet. This new textbook:

- ⑤ Introduces how microorganisms are classified, the physical constraints governing their growth, and their phylogenetic diversity throughout Earth's surface environments
- ⑤ Summarizes microbial metabolic capabilities and the most fundamental characteristic dictating the progression of microbial processes
- ⑤ Focuses on the chemical reactivity of the cell surface and its ability to absorb metals
- ⑤ Discusses the critical role of biomineralisation
- ⑤ Describes the role of microorganisms in natural mineral dissolution and oxidation reactions
- ⑤ Examines the role of microorganisms in elemental cycling, from biofilms to the ocean sediment column.

416 PAGES / 258 ILLUSTRATIONS / 0-632-05454-9 PB / **DECEMBER 2005**

### SPECIAL PAPERS IN PALAEOLOGY SERIES

**No 72: Lower Jurassic Floras from Hope Bay and Botany Bay, Antarctica**

**P.M. REES & C.J. CLEAL**

96 PAGES / 0-90170-283-8 PB / **OCTOBER 2004**

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Edited by **MARCELLO SÁNCHEZ-VILLAGRA & JENNY CLACK**

116 PAGES / 0-90170-282-X PB / **MARCH 2004**

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400 PAGES / 0-90170-281-1 PB / **2003**

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**OLIVER W. M. RAUHUT**

216 PAGES / 0-90170-279-X PB / **2003**

**No 68: Life and Environments in Purbeck Times**

Edited by **ANDREW MILNER & DAVID BATTEN**

268 PAGES / 0-90170-273-0 PB / **2003**

### NEW IN 2005

## Paleontological Data Analysis

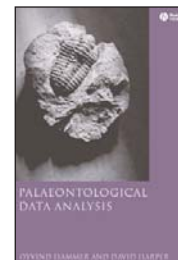
**OYVIND HAMMER & DAVID HARPER**

*University of Oslo; University of Copenhagen*

**PALEONTOLOGICAL DATA ANALYSIS** explains

the key numerical techniques in paleontology, and the methodologies employed in the software packages now available. Following an introduction to numerical methodologies in paleontology, and to univariate and multivariate techniques (including inferential testing), there follow chapters on morphometrics, phylogenetic analysis, paleobiogeography and palaeoecology, time series analysis and quantitative biostratigraphy. The book and the accompanying software package are important investigative tools in a rapidly developing field characterized by many exciting new discoveries and innovative techniques.

352 PAGES / 1-4051-1544-0 PB / **OCTOBER 2005**



## Invertebrate Palaeontology and Evolution

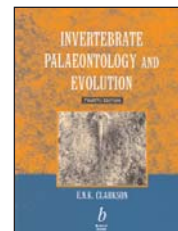
Fourth Edition

**EN.K. CLARKSON**

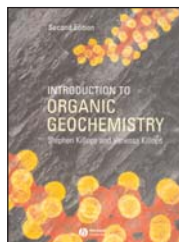
*University of Edinburgh*

**INVERTEBRATE PALAEOLOGY AND EVOLUTION**

is well established as the foremost palaeontology text at undergraduate level. This fully revised edition includes a complete update of the sections on evolution and the fossil record, and the evolution of the early metazoans.



468 PAGES / 0-632-05238-4 PB / **1998**



## NEW IN 2005

# Stable Isotopes in Paleoclimatology

**JONATHAN HOLMES & M. MASLIN**

*Both University College London*

This important book examines the application of stable isotopes in the reconstruction of past climatic conditions. With particular emphasis on the Quaternary, **STABLE ISOTOPES IN QUATERNARY PALEOCLIMATOLOGY**, provides a comprehensive overview of isotope records in marine sediments, ice cores and continental archives and examines how these may be interpreted.

224 PAGES  
1-4051-1801-6 PB / **DECEMBER 2005**



## Marine Geochemistry

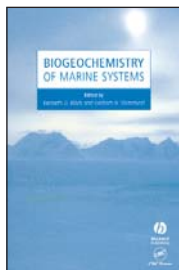
Second Edition

**ROY CHESTER**

*University of Liverpool*

**MARINE GEOCHEMISTRY** offers a fully comprehensive and integrated treatment of the chemistry of the oceans, their sediments and biota. It addresses the fundamental question about how the oceans work as a chemical system? by capitalizing on the significant advances in understanding oceanic processes made over the past three decades; advances, which have been facilitated by improved sampling and analytical techniques, a better understanding of theoretical concepts and the instigation of large-sized international oceanographic programmes.

520 PAGES  
0-632-05432-8 HB **1999**  
1-4051-0172-5 PB **2002**



NEW

## Introduction to Organic Geochemistry

Second Edition

**STEPHEN KILLOPS & VANESSA KILLOPS**

*Open University; Civil Servant*

**INTRODUCTION TO ORGANIC GEOCHEMISTRY** explores the fate of organic matter of all types, biogenic and man-made, in the Earth system. It investigates the variety of pathways and biogeochemical transformations that carbon compounds can experience over a range of time scales and in different environments.

The scope of this second edition has been widened to provide a broad and up-to-date background. The authors have structured the text to accommodate readers with varied scientific backgrounds. Essential terminology is defined fully, and boxes are used to explain concepts introduced from other disciplines. Further study is aided by the incorporation of carefully selected literature references.

Geology, geochemistry and environmental science undergraduates and postgraduates, as well as students of ecology and oceanography, will find this text an essential introduction to organic geochemistry. Petroleum geologists will also find it an invaluable source of information.

408 PAGES / 150 ILLUSTRATIONS  
0-632-06504-4 PB / **NOVEMBER 2004**

## ALSO OF INTEREST

### Biogeochemistry of Marine Systems

Edited by **KENNETH D. BLACK & GRAHAM B. SHIMMIELD**

SERIES: BIOLOGICAL SCIENCES SERIES  
384 PAGES / 1-8412-7327-9 HB / **2003**

JOURNALS

## Geofluids

Edited by **GRANT GARVEN, JOHN PARNELL & BRUCE YARDLEY**

**GEOFLUIDS** provides an international forum for original research into the role of fluids in mineralogical, chemical, and structural evolution of the Earth's crust. Its explicit aim is to disseminate ideas across the range of sub-disciplines in which **GEOFLUIDS** research is carried out. To this end authors are encouraged to

stress the transdisciplinary relevance of their research, and to make their work as accessible as possible to readers from other sub-disciplines. **GEOFLUIDS** emphasizes both chemical and physical aspects of subsurface fluids throughout the Earth's crust (although excluding silicate melts). **GEOFLUIDS** spans studies of groundwater, terrestrial or submarine geothermal fluids, basinal brines, petroleum, metamorphic waters or magmatic fluids, but requires relevance to processes that are significant on a geological time scale.

## SAMPLE CONTENTS

- ☉ The Origins of Salinity in Metamorphic Fluids  
*B.W.D. Yardley and J.T. Graham*
- ☉ The Geological Methane Budget at Continental Margins and its Influence on Climate Change  
*A.G. Judd, M. Hovland, L.I. Dimitrov, S. García Gil and V. Jukes*
- ☉ Equations of State for Basin Geofluids: Algorithm Review and Intercomparison for Brines  
*J.J. Adams and S. Bachu*

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ISSN: 1468-8115, VOLUME 5 (2005), 4 ISSUES A YEAR

## The Student's Companion to Geography

Second Edition

Edited by ALISDAIR ROGERS & HEATHER A. VILES

Keble College, University of Oxford; University of Oxford

*"A comprehensive guide to the discipline... will prove very helpful to anyone wishing to 'get started' on some aspect of the subject."*

TIM BURT, UNIVERSITY OF DURHAM

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416 PAGES / 20 FIGURES; 25 HALFTONES  
0-631-22132-8 HB / 0-631-22133-6 PB / 2002

## The Holocene

An Environmental History

Second Edition

NEIL ROBERTS

University of Plymouth

*"This text, now as a second edition, is without doubt one of the finest efforts to comprehensively examine the Earth's changing surface over the past 15,000 years."*

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Completely revised and updated to take full account of the most recent advances, the new edition of this established text includes substantial material on scientific progress in the understanding of climate change and abrupt climatic events, of disturbance effects on the landscape, and of ice core records.

344 PAGES  
34 HALFTONES, 12 TECHNICAL BOXES, 75 FIGURES, 24 TABLES  
0-631-18638-7 PB / 1998

NEW

## Hydrogeology

Principles and Practice

KEVIN HISCOCK

University of East Anglia

### HYDROGEOLOGY: PRINCIPLES AND PRACTICE

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- ⑤ Explains the fundamental physical and chemical principles of hydrogeology and includes a new chapter on groundwater investigation techniques and contaminant hydrogeology
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- ⑤ Discusses groundwater resources and environmental management and examines the role of groundwater in integrated river basin management, including a section on the possible impacts of climate change
- ⑤ Boxes are used throughout to explain special topics and provide supporting case studies with international examples
- ⑤ Review questions and exercises develop the reader's knowledge and problem solving skills in hydrogeology
- ⑤ Artwork and solutions to questions are available to instructors on CR-ROM.

Written for undergraduate and graduate students of Earth and environmental science with an interest in hydrogeology, this textbook will also be of interest to professionals concerned with groundwater management.

408 PAGES / 216 ILLUSTRATIONS  
0-632-05763-7 PB / DECEMBER 2004

## Rivers and Floodplains

Forms, Processes, and Sedimentary Record

JOHN S. BRIDGE

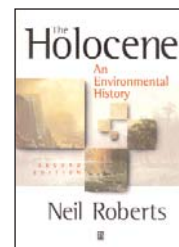
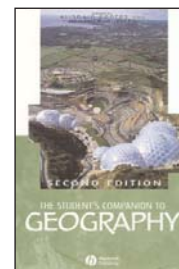
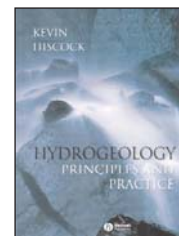
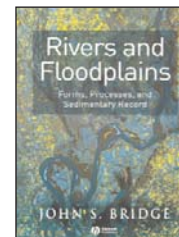
State University of New York at Binghamton

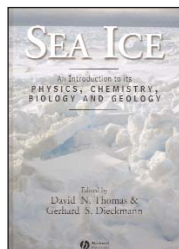
*"A first-class resource for both researchers and interested graduate students in geology and geography."*

JOURNAL OF QUATERNARY SCIENCE

**RIVERS AND FLOODPLAINS** is concerned with the origin, geometry, water flow, sediment transport, erosion, and deposition associated with modern alluvial rivers and floodplains, how they vary in time and space, and how this information is used to interpret deposits of ancient rivers and floodplains. There is specific reference to the types and lifestyles of organisms associated with fluvial environments, human interactions with rivers and floodplains, associated environmental and engineering concerns, as well as the economic aspects of fluvial deposits, particularly the modeling of fluvial hydrocarbon reservoirs and aquifers. Methods of studying rivers and floodplains and their deposits are also discussed. Although basic principles are emphasized, many examples are detailed. Particular emphasis is placed on how an understanding of the nature of modern rivers and floodplains is required before any problems concerning rivers and floodplains, past or present, can be addressed rationally.

504 PAGES / 254 ILLUSTRATIONS  
0-632-06489-7 PB / 2003





NEW IN 2005

## The Human Impact on the Natural Environment

Past, Present and Future  
Sixth Edition

**ANDREW GOUDIE**

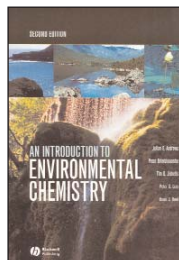
*University of Oxford*

The new edition of this classic student text provides an up-to-date and comprehensive view of the major environmental issues facing the world today, and is an essential introduction to the past, present and future impact of humans on the Earth.

Following the successful structure of previous editions, the new edition of **THE HUMAN IMPACT** has been extensively enlarged and updated, with many new figures and up-to-date statistics. Four completely new chapters explore the ways in which global climate change may impact on the Earth in the future. Other chapters explore the impact of humans upon vegetation, animals, soils, water, landforms, and the atmosphere. A new design makes the text even more accessible and easy to use.

This important book is essential reading for undergraduates of environmental science and physical geography courses and anyone requiring a thorough overview of the impact of humans upon natural processes and systems.

512 PAGES / 220 ILLUSTRATIONS / 1-4051-2704-X PB / **DECEMBER 2005**



## An Introduction to Environmental Chemistry

Second Edition

**JULIAN E. ANDREWS, PETER BRIMBLECOMBE, TIM D. JICKELLS,  
PETER S. LISS & BRIAN J. REID**

*All University of East Anglia*

Environmental chemistry is now a key part of many environmental, Earth and life science courses. An understanding of the fundamental chemistry implicit in the subject is important, but students must also be familiar with aspects of mineralogy, oceanography, soil science, sedimentology and microbiology, to name just a few of the cross-over areas. The second edition is fully revised and expanded to provide a concise but thorough introduction to the subject in its widest sense.

- ☉ Retains an emphasis on describing how natural geochemical processes operate over a variety of scales in time and space, and how the effects of human perturbations can be measured
- ☉ Topics range from familiar global issues such as atmospheric pollution and its effect on global warming and ozone destruction, to the microbiological processes that cause pollution of drinking water in deltas
- ☉ Contains sections and information boxes that explain the basic chemistry underpinning the subjects covered.

320 PAGES / 0-632-05905-2 PB / **2003**

## Sea Ice

An Introduction to its Physics, Chemistry, Biology and Geology

**Edited by DAVID THOMAS &  
GERHARD S. DIECKMANN**

*University of Wales-Bangor; Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany*

**SEA ICE** provides a comprehensive review of our current available knowledge of polar pack ice, the study of which is severely constrained by the logistic difficulties of working in such harsh and remote regions of the Earth.

The book's editors, David Thomas and Gerhard Dieckmann have drawn together an impressive group of international contributing authors, providing a well-edited and integrated volume, which will stand for many years as the standard work on the subject. Contents of the book include details of the growth, microstructure and properties of sea ice, large-scale variations in thickness and characteristics, its primary production, micro- and macrobiology, sea ice as a habitat for birds and mammals, sea ice biogeochemistry, particulate flux, and the distribution and significance of palaeo sea ice.

416 PAGES / 0-632-05808-0 HB / **2003**

FORTHCOMING IN 2006

## Natural Resources in Eastern Europe

Political Ecologies of Local Transformation

**CHAD STADDON**

*University of the West of England*

**NATURAL RESOURCES IN EASTERN EUROPE** examines the complex roles played by 'natural resources' in the environmental and political-economic transformations of Eastern European countries since the collapse of communist central planning.

The author draws on ethnographic case studies to argue that natural resources are anything but 'natural' and that careful attention needs to be paid to the ways in which natural resources are re-constituted as objects of particular kinds of local development, state management, and commercial exploitation in the postcommunist transformation period. The book is an important contribution to scholarship of environmental issues and of postcommunist transition.

SERIES: RGS-IBG BOOK SERIES

SERIES EDITORS: JAN SADLER & NICK HENRY

192 PAGES / 1-4051-0851-7 HB / 1-4051-2916-6 PB / **FEBRUARY 2006**



## Environmental Microbiology

Edited by **KENNETH N. TIMMIS & DAVID A. STAHL**

**ENVIRONMENTAL MICROBIOLOGY** provides a high profile vehicle for publication of the most innovative, original and rigorous research in the field. The scope of the journal encompasses the diversity of current research on microbial processes in the environment, microbial communities and microbial interactions: interdisciplinary studies of fundamental problems are a feature.

### SAMPLE CONTENTS

- ⑤ Stable Isotope Probing of rRNA and DNA Reveals a Dynamic Methyloph Community and Trophic Interactions with Fungi and Protozoa in Oxic Rice Field Soil  
*Tillmann Lueders, Bianca Wagner, Peter Claus and Michael W. Friedrich*
- ⑤ Ascomycete Diversity in Soil-feeding Termite Nests and Soils from a Tropical Rainforest  
*Céline Roose-Amsaleg, Yves Brygoo and Myriam Harry*
- ⑤ Diversity and Ecology of Soil Fungal Communities: Increased Understanding through the Application of Molecular Techniques  
*Ian C. Anderson and John W. G. Cairney*
- ⑤ Differential Response of Archaeal and Bacterial Communities to Nitrogen Inputs and pH Changes in Upland Pasture Rhizosphere Soil  
*Graeme W. Nicol, Gordon Webster, L. Anne Glover and James I. Prosser*

PUBLISHED JOINTLY WITH THE SOCIETY FOR APPLIED MICROBIOLOGY

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ISSN: 1462-2912, VOLUME 7 (2005), 12 ISSUES A YEAR

## New Phytologist

Edited by **IAN WOODWARD**

Now celebrating a centenary of publication, **NEW PHYTOLOGIST** continues to publish high-quality, wide-ranging original research on all aspects of plant science. Falling within four sections - Function, Environment, Interaction and Evolution - articles cover topics from intracellular processes to global environmental change.

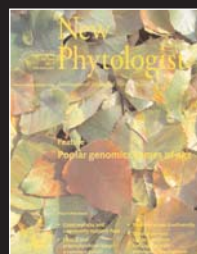
### SAMPLE CONTENTS

- ⑤ The Root-microbe-soil Interface: New Tools for Sustainable Plant Production  
*Robin Sen*
- ⑤ Mycorrhizas and Nutrient Cycling in Ecosystems - a Journey towards Relevance?  
*D.J. Read and J. Perez-Moreno*
- ⑤ Phosphorus Acquisition and Use: Critical Adaptations by Plants for Securing a Non-renewable Resource  
*Carroll P. Vance, Claudia Uhde-Stone and Deborah L. Allan*
- ⑤ Genes and Signalling in Root Development  
*Stuart A. Casson and Keith Lindsey*
- ⑤ Coevolution of Roots and Mycorrhizas of Land Plants  
*Mark C. Brundrett*

PUBLISHED ON BEHALF OF THE NEW PHYTOLOGIST TRUST

[www.newphytologist.org](http://www.newphytologist.org)

ISSN: 0028-646X  
VOLUME 165-168 (2005), 12 ISSUES A YEAR



**NEW**

## The Lakes Handbook

Limnology and Limnetic Ecology

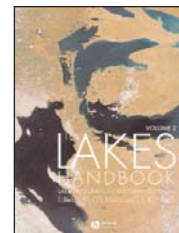
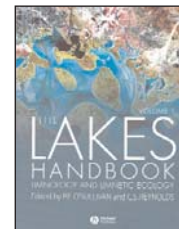
Edited by **PATRICK O'SULLIVAN & COLIN REYNOLDS**

*University of Plymouth; Centre for Ecology and Hydrology, Windermere*

Continuing concern about water supply and quality, ecosystem sustainability and restoration demands that the modern approach to the management of lakes and reservoirs should be based on a sound understanding of the application of the scientific and ecological principles that underlie freshwater processes.

**THE LAKES HANDBOOK** provides an up-to-date overview of the application of ecologically sound approaches, methods and tools using experience gained around the world for an understanding of lakes and their management. Volume one of the **HANDBOOK** addresses the physical and biological aspects of lakes pertinent to lake management, emphasising those aspects particularly relevant to large, still bodies of water. Volume two then considers lake management, with particular emphasis on sustainability, restoration and rehabilitation.

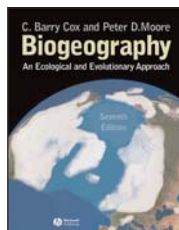
**VOLUME 1**  
712 PAGES / 0-632-04797-6 HB / 2003  
**VOLUME 2**  
568 PAGES  
0-632-04795-X HB / DECEMBER 2004  
**2 VOLUME SET**  
0-632-04794-1 HB / JANUARY 2005



### ALSO OF INTEREST

**Microbial Diversity: Form and Function in Prokaryotes**  
**OLADELE OGUNSEITAN**

312 PAGES  
0-632-04708-9 PB / OCTOBER 2004



NEW IN 2005

## Biogeography

An Ecological and Evolutionary Approach

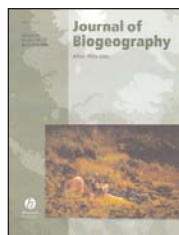
Seventh Edition

**C. BARRY COX & PETER D. MOORE**

Formerly King's College, London; King's College, London

*"May I congratulate [Cox and Moore] in once again, making a subject that requires of the student a certain breadth of experience and a willingness to embrace many disciplines, attractive appealing and accessible - this publication will continue to be the authoritative and highly acclaimed text for students of biogeography."*

MALCOLM GREENWOOD,  
LOUGHBOROUGH UNIVERSITY



The seventh edition of this highly successful and popular textbook has been completely revised and updated to include the latest developments in biogeography. It offers excellent insight into the multidisciplinary nature of biogeography, providing the student with a sound historical base, up-to-date factual content and a clear explanation of current controversies. Key features include:

- ⑤ New chapters on the history of biogeography and on molecular evidence for the interpretation of patterns of biogeography
- ⑤ A new section on the biogeography of parasitic diseases
- ⑤ Strong use of references providing a platform for advanced students to follow further debate in the current literature
- ⑤ Balanced treatment of continental biogeography, island biogeography and marine biogeography.

440 PAGES / 225 ILLUSTRATIONS  
1-4051-1898-9 HB / JANUARY 2005



JOURNALS

NEW EDITOR FOR 2005

## Journal of Biogeography

Edited by **ROBERT J. WHITTAKER**

Papers dealing with all aspects of spatial, ecological and historical biogeography are considered for publication in **JOURNAL OF BIOGEOGRAPHY**. The mission of the journal is to contribute to the growth and societal relevance of the discipline of biogeography through its role in the dissemination of biogeographical research. To that end, the editorial policy is that the **JOURNAL** seeks to be representative of the discipline of biogeography, to be global in scope, and to be inclusive of major traditions and viewpoints within the discipline. The **JOURNAL** was established in 1974 and, reflecting the growth of the discipline, is now published in 12 issues a year, as part of a joint subscription package together with the sister journals *Global Ecology and Biogeography* and *Diversity and Distributions*. The three journals have overlapping scope and aims; with the sister titles each emphasising links between biogeography and related disciplines. The editors reserve the right to transfer material between the journals where this is deemed most suitable.

### SAMPLE CONTENTS

- ⑤ Predators in Natural Fragments: Foraging Ecology of Wolves in British Columbia's Central and North Coast Archipelago  
*C.T. Darimont, M.H.H. Price, N.N. Winchester, J. Gordon-Walker and P.C. Paquet*
- ⑤ A Model for the Species-area-habitat Relationship  
*K.A. Triantis, M. Mylonas, K. Lika and K. Vardinoyannis*

[www.blackwellpublishing.com/JBI](http://www.blackwellpublishing.com/JBI)

ISSN: 0305-0270  
VOLUME 32 (2005), 12 ISSUES A YEAR

## Global Change Biology

Edited by **STEVE LONG**

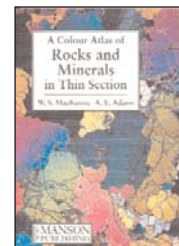
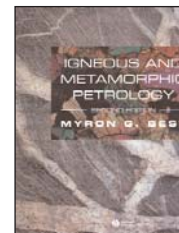
**GLOBAL CHANGE BIOLOGY** publishes papers on all aspects of biology and Earth systems science that relate to the interaction of global environmental change and biological systems. It was founded in recognition of the need for a forum that would cross traditional subject boundaries within biological and environmental science, and to promote the role of biological research in understanding the changing Earth system. Studies include all aspects of global change, from tropospheric ozone and rising carbon dioxide to biodiversity loss and xenobiotics.

### SAMPLE CONTENTS

- ⑤ Global Response of Terrestrial Ecosystem Structure and Function to CO<sub>2</sub> and Climate Change: Results from Six Dynamic Global Vegetation Models  
*W. Cramer, A. Bondeau, F.I. Woodward, I.C. Prentice, R.A. Betts, V. Brovkin, P.M. Cox, V. Fisher, J.A. Foley, A.D. Friend, C. Kucharik, M.R. Lomas, N. Ramankutty, S. Sitch, B. Smith, A. White and C. Young-Molling*
- ⑤ Why are Estimates of the Terrestrial Carbon Balance so Different?  
*R.A. Houghton*
- ⑤ Northern Hemisphere Photosynthetic Trends 1982-99  
*D.A. Slayback, J.E. Pinzon, S.O. Los and C.J. Tucker*

[www.blackwellpublishing.com/GCB](http://www.blackwellpublishing.com/GCB)

ISSN: 1354-1013  
VOLUME 11 (2005), 12 ISSUES A YEAR



NEW IN 2005

## Physical Volcanology

E.A. PARFITT & L. WILSON

Both at University of Lancaster

**PHYSICAL VOLCANOLOGY** is a comprehensive overview of the processes that control when and how volcanoes erupt. Understanding these processes involves bringing together ideas from a number of disciplines, including branches of geology, such as petrology and geochemistry; and aspects of physics, such as fluid dynamics and thermodynamics.

This book explains in accessible terms how different areas of science have been combined to reach our current level of knowledge of volcanic systems. It includes an introduction to eruption types, an outline of the development of physical volcanology, a comprehensive overview of subsurface processes, eruption mechanisms, the nature of volcanic eruptions and their products, and a review of how volcanoes affect the environment.

288 PAGES / 185 ILLUSTRATIONS / 0-032-05443-3 PB / DECEMBER 2005

## Igneous and Metamorphic Petrology

Second Edition

MYRON G. BEST

Brigham Young University

**IGNEOUS AND METAMORPHIC PETROLOGY** is designed to give students a balanced and comprehensive coverage of new advances in geochemistry, geochronology, and geophysics, as well as a firm grounding in the classical aspects of igneous and metamorphic petrology. The emphasis throughout is on the processes controlling petrogenesis, but care is taken to present the important descriptive information so crucial to interpretation.

756 PAGES / 450 ILLUSTRATIONS / 1-4051-0588-7 PB / 2002

## A Colour Atlas of Rocks and Minerals in Thin Section

W.S. MACKENZIE & ANTHONY ADAMS

Both University of Manchester

In this concise, clear and handy-sized volume, aimed at the introductory undergraduate level, these highly respected and successful authors explain to the reader, with the help of 180 superb colour photomicrographs, how to observe, describe and identify thin section samples of rocks and minerals using the polarising microscope. The book highlights important diagnostic features of minerals and deals with all rock types - igneous, sedimentary and metamorphic - with equal emphasis and authority, giving students the knowledge and confidence to begin to identify specimens for themselves.

192 PAGES / 1-8745-4517-0 PB / 1994

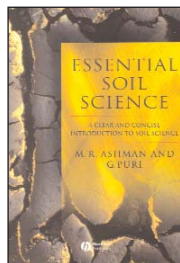
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NEW IN 2005

## Principles and Practice of Soil Science

Fourth Edition

ROBERT WHITE

The University of Melbourne, Australia

Soil remains one of the most important, yet most abused, natural resources on the planet. Responsible management of soil and associated water resources plays a critical role in the survival and prosperity of many nations around the world.

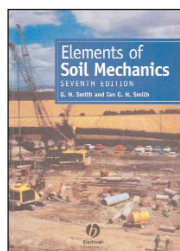
**PRINCIPLES AND PRACTICE OF SOIL SCIENCE, FOURTH EDITION** provides a comprehensive introduction to soil science for students in the fields of ecology, soil and land management, agricultural and environmental science, natural resource management, and environmental engineering. The text focuses on the fundamental concepts of how soils function and how this functioning is vital to productive and environmentally benign soil use.

The **FOURTH EDITION** of this classic text includes:

- ⑤ Fully updated coverage of all the major aspects of soil science, from the soil habitat to processes in the soil environment and management for sustainable production
- ⑤ Discussion of soil management and environmental impacts
- ⑤ Emphasis on the applications of soil science to the solution of practical problems in soil and land management.
- ⑤ Real world examples drawn from the author's international experience in the field
- ⑤ A thoroughly updated art package, with new color photographs and diagrams to help students visualize key concepts
- ⑤ New problem sets at the end of each chapter, designed to reinforce important principles. An answer key is provided at the end of the text.

Although designed primarily for students, **PRINCIPLES AND PRACTICE OF SOIL SCIENCE, FOURTH EDITION** is also an accessible reference for professional soil scientists, agronomists, ecologists, geomorphologists, engineers, and land managers.

384 PAGES / 255 ILLUSTRATIONS  
0-632-06455-2 PB / **SEPTEMBER 2005**



## Essential Soil Science

A Clear and Concise Introduction to Soil Science

M.R. ASHMAN & G. PURI

Formerly at IACR Rothamsted; Environmental Division, National Assembly of Wales

*"It is rare that texts are found combining ease of understanding with a solid scientific foundation. The subtitle of this text 'a clear and concise introduction to soil science' does indeed sum up this book. Its clarity of production and focus on key aspects of science and human interaction make it a great guide for the beginner and a 'must-buy' for the library."*

BRITISH ECOLOGICAL SOCIETY, TEACHING ECOLOGY GROUP NEWSLETTER

208 PAGES / 113 ILLUSTRATIONS / 0-632-04885-9 PB / **2002**

## Elements of Soil Mechanics

Seventh Edition

G.N. SMITH & IAN SMITH

Both Napier University, Edinburgh

This well established book provides a core text for first and second year civil engineering students.

The fundamental principles of the subject are explained clearly and logically and their use in practical applications is well illustrated. The book also features a wide range of worked examples and problems that aid student-centred learning. The main features of the seventh edition are the new sections describing limit state design and unsaturated soils. These two topics have been included to reflect the recent changes in practice in these two subject areas. New worked examples have been provided to help guide the reader through the new design approaches endorsed through the limit state design methods set out in the new geotechnical codes, and an up-to-date appraisal is given of the problems of unsaturated soil.

512 PAGES / 0-632-04126-9 PB / **1998**

FORTHCOMING IN 2006

**Fundamentals of Rock Mechanics, Fourth Edition**

R. ZIMMERMAN

608 PAGES / 0-632-05759-9 PB / **MARCH 2006**

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INCREASING TO 6 ISSUES A YEAR

## European Journal of Soil Science

Edited by P. LOVELAND

One of the foremost publications in this area, this journal has a wide international readership amongst soil scientists, agriculturalists, geographers and other workers in the earth sciences. It publishes original research papers and reviews on all aspects of the science of soil, including soil hydrology, soil/plant relationships and the wider applications to agriculture and forestry.

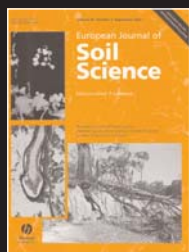
### SAMPLE CONTENTS

- ☉ Let's Rewrite the Scientific Paper  
*R. Webster*
- ☉ Humus Forms and Metal Pollution in Soil  
*S. Gillet and J.F. Ponge*
- ☉ Mineral Surfaces and Soil Organic Matter  
*K. Kaiser and G. Guggenberger*

PUBLISHED ON BEHALF OF THE BRITISH SOCIETY  
OF SOIL SCIENCE (AND THE NATIONAL SOCIETIES  
OF SOIL SCIENCE IN EUROPE)

[www.blackwellpublishing.com/EJS](http://www.blackwellpublishing.com/EJS)

ISSN: 1351-0754  
VOLUME 56 (2005), 6 ISSUES A YEAR



NEW

## Soil Erosion and Conservation

Third Edition

RP.C. MORGAN

*Cranfield University*

**SOIL EROSION AND CONSERVATION** provides a comprehensive treatment of the processes of soil erosion, the methods that can be used for their control, and the issues involved in designing and implementing soil conservation programmes. Features include:

- ☉ New material on gully erosion, tillage practices, erosion risk assessment, use of erosion models, incentives for farmers and land users, and community approaches to erosion control
- ☉ Updated sections on the mechanics of wind erosion, soil erodibility, use of vegetation in erosion control, traditional soil conservation measures, socio-economic issues and the role of government
- ☉ Descriptions of the methods used to assess the risk of erosion and predict rates of soil loss
- ☉ Outlines of the social, economic, political and institutional constraints on implementing soil protection measures
- ☉ Worldwide coverage of the success and failure of erosion control using material from America, Europe, Africa, Australia and Asia.

320 PAGES / 150 ILLUSTRATIONS / 1-4051-1781-8 PB / DECEMBER 2004

## Science and the Garden

The Scientific Basis of Horticultural Practice

Edited by DAVID INGRAM, DAPHNE VINCE PRUE & P.J. GREGORY

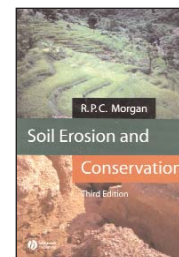
*St Catherine's College, University of Cambridge; University of Reading; University of Reading*

*"Wide ranging and comprehensive topics with jargon-free scientific explanations... an excellent book for an introductory plant science or horticultural science course."*

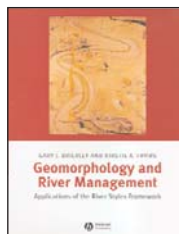
JOURNAL OF ENVIRONMENTAL QUALITY

Most conventional gardening books concentrate on how and when to carry out horticultural tasks such as pruning, seed sowing and taking cuttings. This book is unique in explaining in straightforward terms some of the science that underlies these practices. It is principally a book of 'Why' - Why are plants green? Why should one cut beneath a leaf node when taking cuttings? Why do plants need so much water? But it also goes on to deal with the 'How', providing rationale behind the practical advice. The coverage is wide-ranging and comprehensive and includes the basic structure and functioning of garden plants, nomenclature, genetics and plant breeding, environmental factors affecting growth, methods of propagation and production, pest and disease control, and post harvest management and storage. Published on behalf of the Royal Horticultural Society, this book will be a most valuable text for those sitting the RHS general examination, and horticultural students at certificate and diploma levels; it will also appeal to gardeners, growers and scientists.

304 PAGES / 0-632-05308-9 PB / 2002







NEW

## Geomorphology and River Management

Applications of the River Styles Framework

GARY J. BRIERLEY & KIRSTIE A. FRYIRS

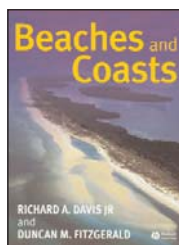
Both Macquarie University

Rivers show a remarkable diversity of character and behavior in any catchment. Human activities have impacted profoundly on the inherent variability in patterns and rates of river adjustment, altering what rivers look like, how they behave, and the structure and function of aquatic ecosystems. This book outlines geomorphic considerations for river management and a generic set of procedures, termed the River Styles framework, which provides a set of tools for interpreting river character, behavior, condition, and recovery potential.

River management programs that 'work with nature' must respect the inherent diversity and behavioral regime of aquatic ecosystems. Each catchment should be managed in its own right, recognizing the patterns and connectivity of river forms and processes, as shaped by the configuration of the system and responses to disturbance events. Applications of the River Styles framework generate a coherent package of geomorphic information that provides a physical template for river rehabilitation activities.

This book is essential reading for a wide range of river practitioners, including students, technical officers, consultants, and academics.

416 PAGES / 146 BLACK AND WHITE HALFTONES / 1-4051-1516-5 PB / DECEMBER 2004



## Beaches and Coasts

RICHARD A. DAVIS JR & DUNCAN M. FITZGERALD

University of South Florida, Tampa; University of Boston

Coastlines of the world are as diverse as any geological setting on Earth. **BEACHES AND COASTS** is an exciting and unique new textbook that provides an exhaustive treatment of the world's different coasts and details the highly varied processes that have shaped them.

Having conducted research on coastlines throughout the world, the authors draw on a wealth of experience that broadens the content of chapters and provide numerous and varied examples. The book furnishes a basic understanding of the tectonic framework, hydrographic regime, climatic setting, and geologic materials that determine the morphology of a coast. Individual chapters are devoted to major coastal environments such as barriers, tidal inlets, marshes, estuaries, lagoons, deltas, glaciated coasts, rocky coasts, and many others.

**BEACHES AND COASTS** provides the necessary content for teaching a broad coastal geology course. Though designed for introductory students, its comprehensive treatment of coastal topics will make it appropriate for many upper level courses.

448 PAGES / 262 ILLUSTRATIONS / 0-632-04308-3 HB / 2003

JOURNALS

## Geografiska Annaler: Series A, Physical Geography

Edited by WIBJORN KARLÉN

**GEOGRAFISKA ANNALER, SERIES A** is a prestigious journal presenting new scientific results in the field of physical geography, glaciology and related subjects, with some emphasis on Arctic areas. The journal includes new ideas, methods and original research results which may stimulate work within various geo-sciences.

**GEOGRAFISKA ANNALER, SERIES A** is supported by the Swedish Natural Sciences Research Council.

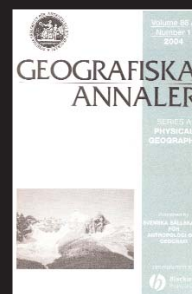
### SAMPLE CONTENTS

- ☉ Global Heat Budget, Plate Tectonics and Climatic Change  
*S.A. Harris*
- ☉ Depositional Environment of Sirius Group Sediments, Table Mountain, Dry Valleys Area, Antarctica  
*J.R. Goff, L.W. Jennings and W.W. Dickinson*
- ☉ Turf Exfoliation in the High Drakensberg, Southern Africa  
*S.W. Grab*
- ☉ Drought is the Major Limiting Factor for Tree-Ring Growth of High-Altitude Canary Island Pines on Tenerife  
*S. Jonsson, B. Gunnarson and C. Criado*

PUBLISHED ON BEHALF OF THE SWEDISH SOCIETY FOR ANTHROPOLOGY AND GEOGRAPHY

[www.blackwellpublishing.com/GEOA](http://www.blackwellpublishing.com/GEOA)

ISSN: 0435-3676, VOLUME 87 (2005), 4 ISSUES A YEAR



# The Geographical Journal

Edited by JOHN BRIGGS

THE GEOGRAPHICAL JOURNAL publishes the very best of original research and scholarship in physical and human geography with particular emphasis placed on all aspects of the environment and development that relate to geographical thought and investigation. The GJ's new focus on environment and development makes the journal essential reading for human and physical geographers as well as for researchers from other disciplines.

## SAMPLE CONTENTS

- ⑨ The Evolution of Soil Conservation Technology, History and Necessity: A Case Study from Jamaica  
*Rebecca J. Kent*
- ⑨ Coastal Defence and the Habitats Directive: Predictions of Habitat Change in England and Wales  
*Mark Lee*
- ⑨ The Spatial Dynamics of Foreign Investment in the Pearl River Delta, South China  
*J. Shen, K.W. Wong, K.Y. Chu and Z. Feng*
- ⑨ Land Use/Cover Change in Central Tibet, c.1830-1990: Devising a GIS Methodology to Study a Historical Tibetan Land Decree  
*Karl E. Ryavec*

PUBLISHED ON BEHALF OF THE ROYAL GEOGRAPHICAL SOCIETY (WITH THE INSTITUTE OF BRITISH GEOGRAPHERS)

[www.blackwellpublishing.com/GEOJ](http://www.blackwellpublishing.com/GEOJ)

ISSN: 0016-7398  
VOLUME 171 (2005), 4 ISSUES A YEAR

# Transactions of the Institute of British Geographers

Edited by ADAM TICKELL

The overriding aim of TRANSACTIONS is to maintain its position as one of the foremost international journals of geographical research. To this end, it seeks to publish the very best scholarship from around the world, across the whole range of the discipline.

## SAMPLE CONTENTS

- ⑨ Geographers and 'Globalization': (yet) another Missed Boat?  
*Peter Dicken*
- ⑨ Conceptual Framework for the Persistence of Flood-initiated Geomorphological Features  
*Ann Calver and Malcolm G. Anderson*
- ⑨ Environmental Science, Sustainability and Politics  
*Tim O'Riordan*

PUBLISHED ON BEHALF OF THE ROYAL GEOGRAPHICAL SOCIETY (WITH THE INSTITUTE OF BRITISH GEOGRAPHERS)

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ISSN: 0020-2754  
VOLUME 30 (2005), 4 ISSUES A YEAR

# Area

Edited by ALISTAIR BONNETT & HEATHER VILES

AREA publishes excellent geographical research and scholarship across the field of geography. Whatever your interests, reading AREA is essential to keep up with the latest thinking in geography

## SAMPLE CONTENTS

- ⑨ What is Local about Local Environmental Governance? Observations from the Local Biodiversity Action Planning Process  
*James Evans*
- ⑨ Assessing Natural and Cultural Influence on Soil in Remnant Tropical Woodlands  
*C.Y. Jim and Michael W.H. Chan*
- ⑨ National Carbon Dioxide Emissions: Geography Matters  
*Eric Neumayer*
- ⑨ More Trees in the Tropics  
*Jerry O'Joby' Bass*

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ISSN: 0004-0894  
VOLUME 37 (2005), 4 ISSUES A YEAR

## JOURNALS



## Geographical Research

Journal of the Institute of Australian Geographers

**Edited by ARTHUR CONACHER, GEORGE CURRY & ROY JONES**

Published four times a year, **GEOGRAPHICAL RESEARCH** is Australia's flagship journal of professional geography. Contributions to the journal are particularly invited on the geography of Australia and its Pacific, Asian and Antarctic neighbourhoods and on the nature, methods and study of geography, interpreted in its widest sense. As well as major research articles, the journal also publishes shorter contributions. These include Commentaries, Research Notes and Teaching Notes.

PUBLISHED ON BEHALF OF THE INSTITUTE OF AUSTRALIAN GEOGRAPHERS INC.

[www.blackwellpublishing.com/AGES](http://www.blackwellpublishing.com/AGES)

ISSN: 1745-5863, VOLUME 43 (2005), 4 ISSUES A YEAR

## Transactions in GIS

**Edited by JOHN P. WILSON, A. STEWART FOTHERINGHAM & GARY J. HUNTER**

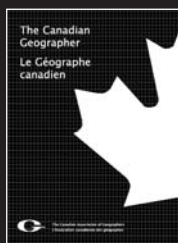
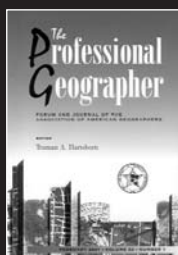
*"This journal is a valuable source of topical information on GIS for those in industry and research as well as for students studying in any of the GIS related fields."*

THE TIMES HIGHER EDUCATION SUPPLEMENT

**TRANSACTIONS IN GIS** is an international journal which provides a forum for high quality, original research articles, review articles, short notes and book reviews that focus on: practical and theoretical issues influencing the development of GIS; the collection, analysis, modelling, interpretation and display of spatial data within GIS; the connections between GIS and related technologies; and new GIS applications which help to solve problems affecting the natural or built environments, or business.

[www.blackwellpublishing.com/TGIS](http://www.blackwellpublishing.com/TGIS)

ISSN: 1361-1682, VOLUME 9 (2005), 4 ISSUES A YEAR



## The Professional Geographer

Forum and Journal of the Association of American Geographers

**Edited by SHARMISTHA BAGCHI-SEN & SEAN J. BERRETT**

Addressing questions and problems of interest to a wide group of geographers, **THE PROFESSIONAL GEOGRAPHER** provides a forum for new ideas and alternative viewpoints in academic and applied geography.

PUBLISHED ON BEHALF OF THE ASSOCIATION OF AMERICAN GEOGRAPHERS

[www.blackwellpublishing.com/PG](http://www.blackwellpublishing.com/PG)

ISSN: 0033-0124, VOLUME 57 (2005), 4 ISSUES A YEAR

## The Canadian Geographer / Le Géographe canadien

**Edited by LAWRENCE D. BERG**

The aim of **THE CANADIAN GEOGRAPHER** is to publish original writing of the highest scholarly quality on topics of interest to geographers and scholars in related fields worldwide. Philosophical, theoretical, and methodological topics from around the globe are emphasized in the journal as well as works by Canadian geographers, and materials on Canada and the wider world.

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[www.blackwellpublishing.com/CG](http://www.blackwellpublishing.com/CG)

ISSN: 0008-3658, VOLUME 49 (2005), 4 ISSUES A YEAR

## Annals of the Association of American Geographers

**Edited by BASIL GOMEZ, MICHAEL GOODCHILD, AUDREY KOBAYASHI & KARL ZIMMERER**

As the flagship journal of the Association of American Geographers, **ANNALS OF THE AAG** publishes original, timely, and innovative peer-reviewed articles that advance knowledge in all facets of the discipline. These articles address significant research problems and issues, and are attuned to the sensibilities of a diverse scholarly audience.

PUBLISHED ON BEHALF OF THE ASSOCIATION OF AMERICAN GEOGRAPHERS

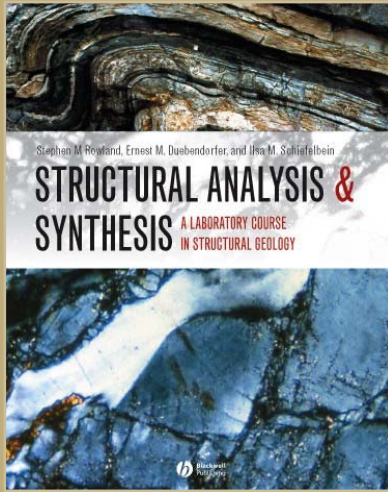
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ISSN: 0004-5608, VOLUME 95 (2005), 4 ISSUES A YEAR

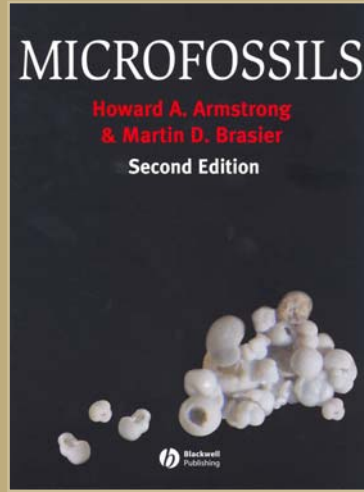
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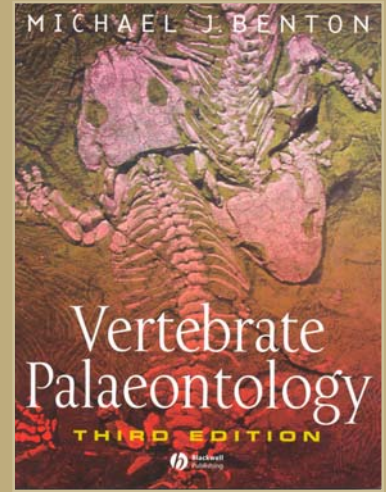




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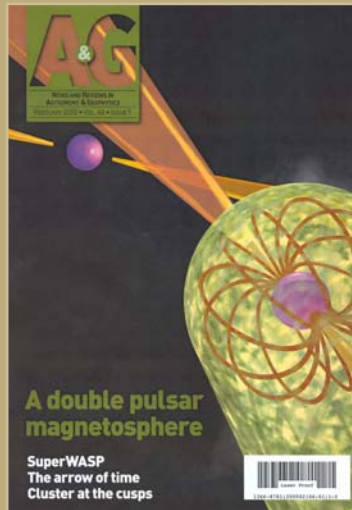
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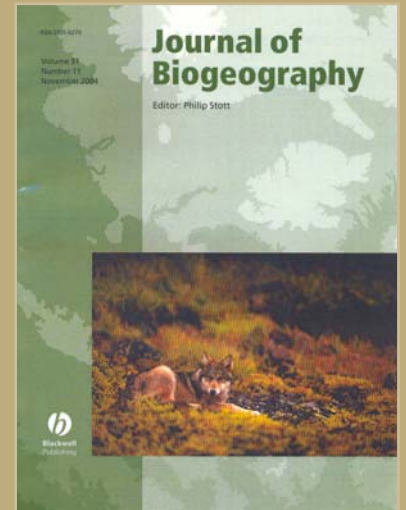
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