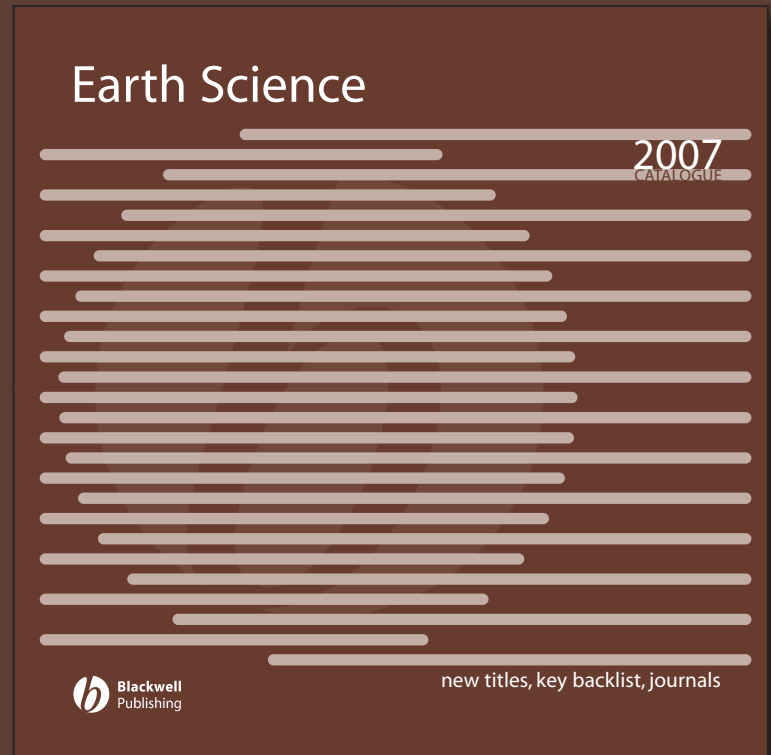


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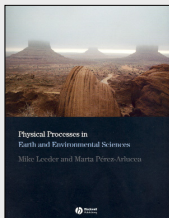
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KEY TEXTBOOK



"...remarkably comprehensive, full of delightful asides and comments, and written in a style that aptly combines erudition and charm."

CHRIS PAOLA,
NATIONAL CENTER FOR
EARTH-SURFACE
DYNAMICS

Physical Processes in Earth and Environmental Sciences

MIKE LEEDER & MARTA PÉREZ-ARLUCEA

University of East Anglia; University of Vigo

This essential reference for undergraduate students provides a sound introduction to the basic physical processes that dominate the workings of the Earth, its atmosphere and hydrosphere. It systematically introduces the physical processes involved in the Earth's systems without assuming an advanced physics or mathematical background.

It provides an integrated approach to the study of earth, marine and atmospheric environmental sciences, reflecting current trends in undergraduate courses. It 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.



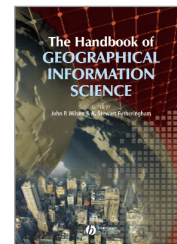
336 PAGES - 2005
1-4051-0173-3 [ISBN13: 978-1-4051-0173-8] PB

NEW IN 2007

The Handbook of Geographical Information Science

Edited by JOHN P. WILSON
& A. STEWART FOTHERINGHAM

University of Southern California; National University of Ireland



Designed to suit those who want an in-depth treatment of the subject, this handbook comprises around 40 substantial essays, each written by a recognized expert in the area. Contributors explore data collection and dissemination, database solutions and the applications of, and opportunities for, using GIS.

SERIES: BLACKWELL COMPANIONS TO GEOGRAPHY

496 PAGES - MAY 2007

1-4051-0795-2 [ISBN13: 978-1-4051-0795-2] HB

1-4051-0796-0 [ISBN13: 978-1-4051-0796-9] PB

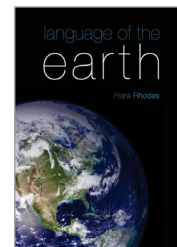
NEW IN 2007

Language of the Earth

Second Edition

Edited by FRANK RHODES & BRUCE MALAMUD

Cornell University; Kings College London



The new edition of this landmark anthology explores man's complex relationship to planet Earth. It provides a portrait of the planet as experienced not just by scientists, but by artists, aviators, poets, philosophers, novelists, historians, and sociologists. It represents the human experience over the centuries, covering a span of 2,500 years.

Bridging the gap between science and humanities it reflects the planet's extraordinary diversity, from dripping mines and caves to the high deserts of the Andes, the Antarctic ice sheet and even the surface of the moon.

320 PAGES - JULY 2007

1-4051-6067-5 [ISBN13: 978-1-4051-6067-4] HB

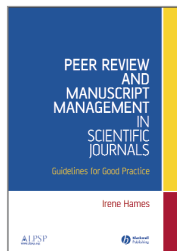
NEW IN 2007

Peer Review and Manuscript Management in Scientific Journals

Guidelines for Good Practice

IRENE HAMES

Managing Editor of *The Plant Journal*



Co-published with the Association of Learned and Professional Society Publishers (ALPSP), this book provides a thorough and complete guide to every aspect of managing the peer review process for scientific journals, from manuscript submission through to final decision-making.

It is an essential reference for science journal editors, editorial office staff and publishers. It is an invaluable handbook for the set-up of new editorial offices, as well as a useful reference for well-established journals which may need guidance on a particular situation, or may want to review their current practices.

208 PAGES - MARCH 2007

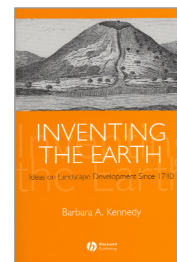
1-4051-3159-4 [ISBN13: 978-1-4051-3159-9] PB

Inventing the Earth

Ideas on Landscape Development Since 1740

BARBARA A. KENNEDY

University of Oxford



Chronicles how successive generations of natural philosophers, geologists and geomorphologists have come to invent different views of the Earth over the past 250 years. It shows how our contemporary "truths" have come to be accepted and, with no guarantee that our current view of the Earth is correct, exposes the frailty of even the most impeccably scientific visions of the Earth.

176 PAGES - 2005

1-4051-0187-3 [ISBN13: 978-1-4051-0187-5] HB

1-4051-0188-1 [ISBN13: 978-1-4051-0188-2] PB


Introduction to Mineral Exploration

Second Edition

Edited by CHARLES J. MOON, MICHAEL K.G. WHATELEY
& ANTHONY M. EVANS

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

- ☑ Provides an overview of all aspects of the nature of mineral exploration as well as factors such as target evaluation and feasibility studies, essential to successful exploration.
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 496 PAGES - 2005
1-4051-1317-0 [ISBN13: 978-1-4051-1317-5] PB
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University of Witwatersrand

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THE CANADIAN MINERALOGIST


 384 PAGES - 2004
0-632-06378-5 [ISBN13: 978-0-632-06378-9] PB

Petroleum Geoscience

JON GLUYAS & RICHARD SWARBICK

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

Introduces readers to the application of geology and geophysics to the search for and production of oil and gas. Examples are drawn from around the world and from petroleum systems ranging in age from the late Precambrian period to the Pliocene.

 376 PAGES - 2003
0-632-03767-9 [ISBN13: 978-0-632-03767-4] PB

NEW IN 2007

Fundamentals of Rock Mechanics

Fourth Edition


J.C. JAEGER, N.G.W. COOK
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Australian National University; University of California, Berkeley;
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By popular demand, this classic book, unavailable for many years, is now back.

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It is an invaluable resource for all geologists, geophysicists, and geotechnical engineers working in the field today.

 488 PAGES - MARCH 2007
0-632-05759-9 [ISBN13: 978-0-632-05759-7] HB

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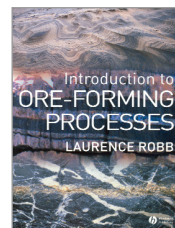
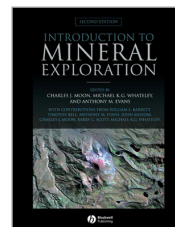
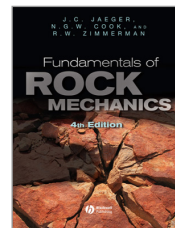
Ore Geology and Industrial Minerals, Third Edition

ANTHONY M. EVANS

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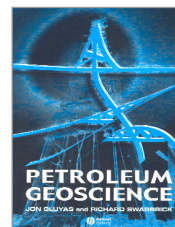
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A Geochemical Approach

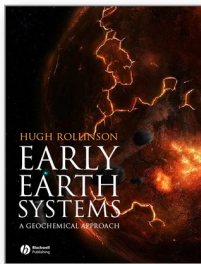
HUGH ROLLINSON

Sultan Qaboos University

Provides a complete history of the Earth from its beginnings to the end of the Archaean period. This journey through the Earth's early history begins with the Earth's origin, then examines the evolution of the mantle, the origin of the continental crust, the origin and evolution of the Earth's atmosphere and oceans, and ends with the origin of life.

- ▣ Looks at the evidence for the Earth's very early differentiation into core, mantle, crust, atmosphere and oceans and how this differentiation saw extreme interactions within the Earth system.
- ▣ Discusses Archaean Earth processes within the framework of the Earth System Science paradigm, providing a qualitative assessment of the principal reservoirs and fluxes in the early Earth.

 296 PAGES - DECEMBER 2006
1-4051-2255-2 [ISBN13: 978-1-4051-2255-9] PB



An Introduction to Geophysical Exploration

Third Edition


PHILIP KEAREY, MICHAEL BROOKS & IAN HILL

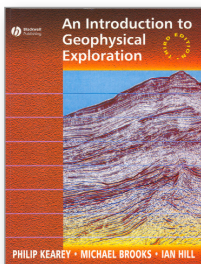
University of Bristol; The Geological Society; University of Leicester

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

GEOLOGICAL MAGAZINE

This classic text provides a general introduction to the methods and techniques of geophysical exploration used to investigate the subsurface of the earth. Using case studies of petroleum, groundwater, engineering, environmental and forensic applications, it covers theory, instrumentation, field data acquisition techniques, data processing and interpretation methods.

 288 PAGES - 2002
0-632-04929-4 [ISBN13: 978-0-632-04929-5] PB



An Introduction to Organic Geochemistry

Second Edition

STEVEN KILLOPS & VANESSA KILLOPS

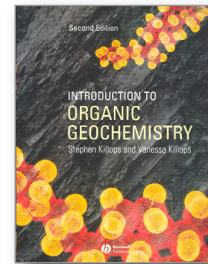
Open University; Civil Servant

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.

Key topics covered include:

- ▣ The global carbon cycle and related elemental cycles
- ▣ Evolution of life and its influence on the carbon cycle through Earth history
- ▣ Production and chemical composition of biogenic matter
- ▣ Degradation vs. preservation of sedimentary organic matter in various environments
- ▣ Biological and thermal alteration in sediment, soil and water column
- ▣ Molecular and isotopic stratigraphy
- ▣ Greenhouse gases and palaeoclimatic variation
- ▣ Man's influence on biogeochemical cycles and global climate change
- ▣ Factors affecting the behavior of pollutants in the environment.

 408 PAGES - 2004
0-632-06504-4 [ISBN13: 978-0-632-06504-2] PB



An Introduction to Seismology, Earthquakes, and Earth Structure

SETH STEIN & MICHAEL WYSESSION

Northwestern University; Washington University

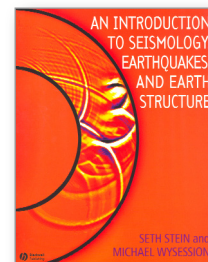
"This outstanding book is without equal, and it will endure for many years as an indispensable reference for earth scientists and engineers as well as a great resource for students."

CHOICE

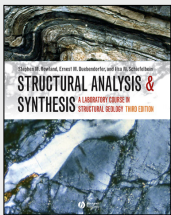
"An indispensable reference for serious students of solid-Earth geophysics."

PHYSICS TODAY

 512 PAGES - 2002
0-86542-078-5 [ISBN13: 978-0-86542-078-6] PB



NEW KEY TEXTBOOK



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A Laboratory Course in Structural Geology
Third Edition

STEPHEN M. ROWLAND, ERNEST M. DUEBENDORFER & ILSA M. SCHIEFELBEIN

University of Nevada; Northern Arizona University; ExxonMobil Corporation

Specifically designed to support the laboratory work of undergraduates in structural geology courses, this book provides a highly-readable introduction to structural analysis. Throughout the book, a geologic map from a mythical site, the Bree Creek Quadrangle, is used to help students analyze various aspects of the geologic structures exposed within this quadrangle, and ultimately to combine these analyses into a grand synthesis.

Guided by students' and instructors' suggestions, the authors have refined several exercises and added new ones for this third edition. In addition, every figure has been redrafted to improve clarity, and the Bree Creek Quadrangle map has been compiled onto a single fold-out sheet.



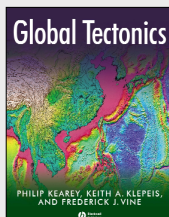
320 PAGES - DECEMBER 2006

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ARTWORK CD-ROM FOR INSTRUCTORS

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Third Edition

PHILIP KEAREY, KEITH A. KLEPEIS & FREDERICK J. VINE

University of Bristol; University of Vermont; University of East Anglia

Combining a historical approach with process science, this book provides a careful balance between geological and geophysical material in both continental and oceanic regimes.

New and expanded chapters in this third edition include Precambrian tectonics and the supercontinent cycle; mantle processes, including mantle plumes; the implications of plate tectonics for environmental change; large igneous provinces; rifted continental margins; ocean ridges; continental transforms; subduction zones; and numerous orogenic examples.



384 PAGES - JANUARY 2008

1-4051-0777-4 [ISBN13: 978-1-4051-0777-8] PB

Praise for 2nd edition:
"Excellent as a text for courses, as an overview for graduate students preparing for a qualifier or preliminary exams, and as a review for active researchers. In short, it should be on every geoscientist's bookshelf."

JOURNAL OF GEOLOGICAL EDUCATION

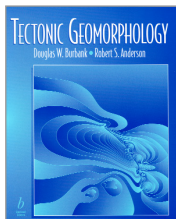
Tectonic Geomorphology

DOUGLAS W. BURBANK & 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



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 calibrating past deformation.



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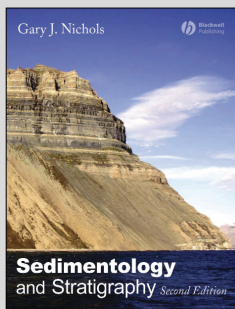
John O'Leary, Nunzio Quacquarelli & Martin Ince

500 pages - November 2006

1-4051-6312-7 [ISBN13: 9-781-4051-6312-5] PB



NEW KEY TEXTBOOK



Sedimentology and Stratigraphy

Second Edition

GARY NICHOLS

Royal Holloway, University of London

"Altogether an enjoyable read... A concise and uncluttered companion to future studies."

THE OUGS JOURNAL

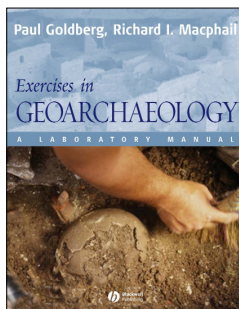
Retaining its trademark clarity and simplicity, the new edition of this text introduces the reader to the central principles of sedimentology and stratigraphy and provides them with the tools needed to interpret sediments and sedimentary rocks.

It considers the processes of formation, transport and deposition of sediment and then applies them to conceptual models for the full range of sedimentary environments, from deserts to deep seas, and from reefs to rivers. It also examines the different approaches used to date and correlate strata. It includes a CD-ROM for instructors and students with indexed artwork, chapter summaries, and other helpful resources.



416 PAGES - JANUARY 2008
1-4051-3592-1 [ISBN13: 978-1-4051-3592-4] PB

NEW IN 2008



Exercises in Geoarchaeology

A Laboratory Manual

PAUL GOLDBERG & RICHARD I. MACPHAIL

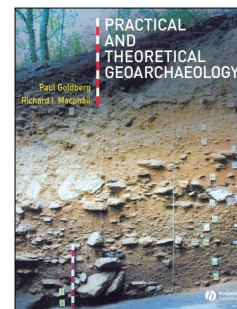
Boston University; University College, London

This practical workbook provides students with the skills they need to work as a geoarchaeologist. Through a series of exercises they are shown how to interpret air photo and topographic maps and what techniques to use to describe soils and sediments. Field-based techniques are also covered, including geophysical and geochemical prospection techniques.

Further exercises take students through the analysis and presentation of laboratory data gathered using standard soil science and sedimentological techniques, as well as in the geochemical analysis of pottery, obsidian, soils, and sediments, using Neutron Activation Analysis (NAA), x-ray diffraction (XRD) and Inductively Coupled Plasma Atomic Spectroscopy (ICP-AES and ICP-MS). It also covers micromorphological techniques and approaches used in the analysis of soils and sediments, and the sourcing of pottery.



160 PAGES - FEBRUARY 2008
1-4051-1341-3 [ISBN13: 978-1-4051-1341-0] PB



Practical and Theoretical Geoarchaeology

PAUL GOLDBERG & RICHARD I. MACPHAIL

Boston University; University College, London

"Gives a thorough introduction to the discipline, allowing the reader to gain a broad understanding of its possible applications... A good basis for undergraduate and masters students approaching geoarchaeology."

ARCHAEOLOGICAL REVIEW FROM CAMBRIDGE

Taking a pragmatic and functional approach, this book provides an overview of geoarchaeology and how it can be used effectively in the study of archaeological sites and contexts.

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ARTWORK CD-ROM FOR INSTRUCTORS
1-4051-3904-8 [ISBN13: 978-1-4051-3904-5]

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Principles and Applications
Second Edition

PHILIP A. ALLEN & JOHN R. ALLEN

Imperial College London; BHP Billiton, Melbourne

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JOURNAL OF SOILS AND SEDIMENTS

Reviews the essential processes of the formation and evolution of sedimentary basins, and their implications for the development of hydrocarbon resources. It examines the principles underlying how basins function by looking at their structure, thermal and subsidence history, and stratigraphic architecture.

Chapters cover new developments on the effects of mantle dynamics, the erosional engine for sediment delivery to basins, thermochronological and exposure dating tools, techniques used in approaching problems in basin analysis, subsidence analysis and measurements of thermal maturity of organic and non-organic components of the basin-fill.



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0-632-05207-4 (ISBN13: 978-0-632-05207-3) PB

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1-4051-3422-4 (ISBN13: 978-1-4051-3422-4)

Sedimentology and Sedimentary Basins

From Turbulence to Tectonics

MIKE LEEDER

University of East Anglia

"Beyond its remarkable scholarly range and depth, this sequel to Leeder's popular text Sedimentology is also a lively and informal read."

NATURE

Designed for earth and environmental science undergraduates this successful text addresses the basic principles of sedimentology. It stimulates interdisciplinary thought by emphasising the advantages of a general science approach and the importance of understanding modern processes. It features colour plates and boxed explanations of difficult derivations.



608 PAGES - 1999

0-632-04976-6 (ISBN13: 978-0-632-04976-9) PB

NEW IN 2007

Deserts and Desert Environments

JULIE LAITY

California State University

Taking a global view, this book gives readers a concise overview of drylands, including their physical, biological, temporal, and human components. It examines the physical systems occurring in these environments including climate, hydrology, past and present lakes, weathering, hillslopes, geomorphic surfaces, water as a geomorphic agent, and aeolian processes.

It explores the biological stresses on such environments and the nature, environmental requirements, and essential geomorphic roles played by plants and animals. It also highlights the impact of human population growth on climate, desertification, water resources, and dust storm activity. Recent advances in understanding the temporal and spatial variability of deserts are included through an examination of surface/atmosphere interactions and the impact of ENSO events. Suitable for an introductory class in desert systems or desert geomorphology, the book is also of great interest to scientists and environmental professionals.



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MICHAEL E. BROOKFIELD



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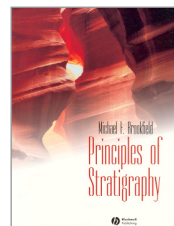
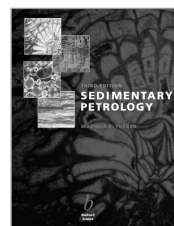
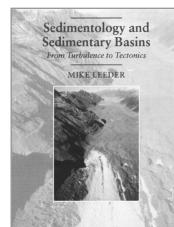
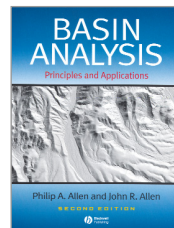
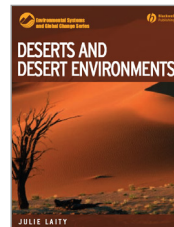
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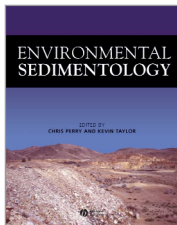
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704 PAGES - 1996

0-632-03627-3 (ISBN13: 978-0-632-03627-1) PB





NEW

Environmental Sedimentology

Edited by CHRIS PERRY & KEVIN TAYLOR

Both Manchester Metropolitan University

Introduces students to the functioning and dynamics of contemporary sediment systems and how these systems respond to a range of both natural and anthropogenically-induced disturbance events.

It considers a variety of sedimentary environments: mountain and upland, fluvial, lacustrine, arid, urban, deltaic and estuarine, temperate coastal, tropical coastal, and continental shelf. Each chapter provides an overview of the main sources and dynamics of sediment production and accumulation, as well as exploring the impacts of a wide range of natural and man-made disturbance issues. Aspects of sediment management and remediation are also considered as are the potential impacts of on-going and future climatic and environmental change.



460 PAGES - OCTOBER 2006 / 1-4051-1515-7 [ISBN13: 978-1-4051-1515-5] PB

NEW IN 2007

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From Sediment Transport to Sequence Stratigraphy

Edited by CHARLES A. NITTROUER, JAMES A. AUSTIN, JR., MICHAEL E. FIELD, JOSEPH H. KRAVITZ, JAMES P.M. SYVITSKI & PATRICIA L. WIBERG

University of Washington; University of Texas; USGS Pacific Science Center; George Washington University; University of Colorado; University of Virginia

Using the results of observational studies, numerical models and laboratory experiments this book provides an overview of current understanding of sedimentary processes and strata associated with fluvial dispersal systems on continental shelves and slopes.

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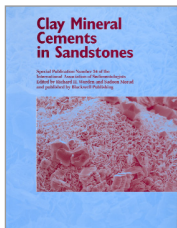
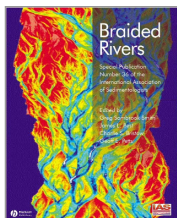
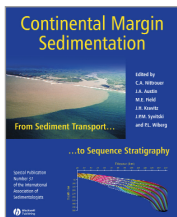
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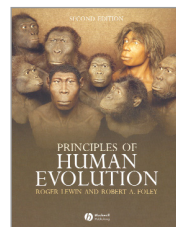
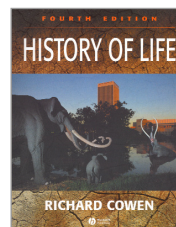
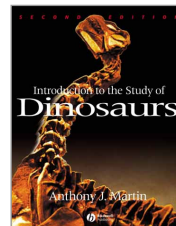
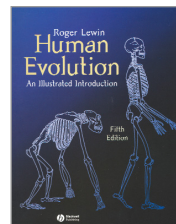
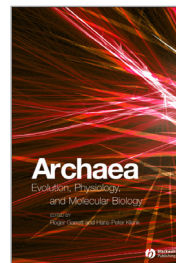
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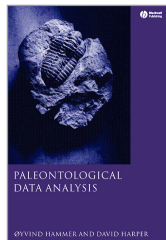
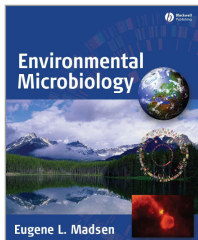
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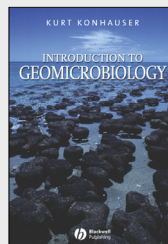
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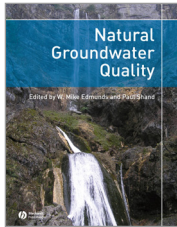
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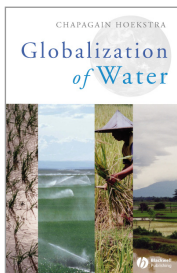
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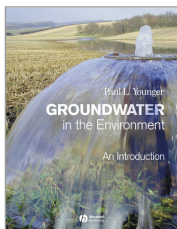
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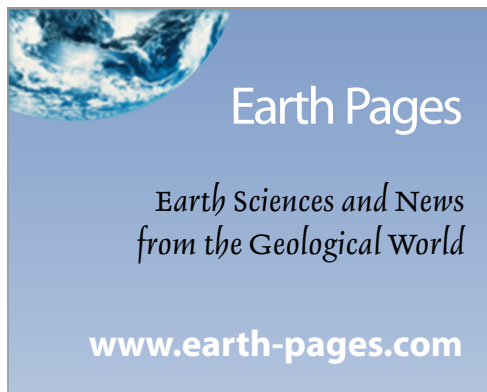
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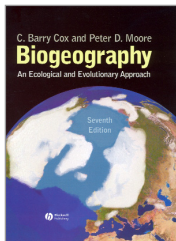
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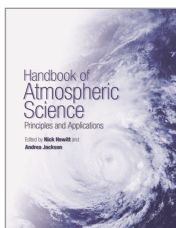
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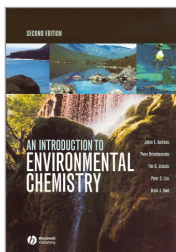
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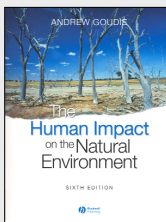
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CONSTANTINE N. RAPHAEL, EASTERN MICHIGAN UNIVERSITY



344 PAGES - 1998 / 0-631-18638-7 [ISBN13: 978-0-631-18638-0] PB

NEW IN 2007

The Wetlands Handbook

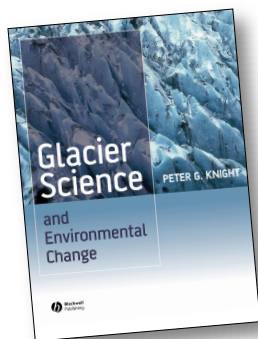
Edited by EDWARD MALTBY

TWO VOLUME SET - NOVEMBER 2007 / 0-632-05255-4 [ISBN13: 978-0-632-05255-4] HB

VOLUME ONE - 512 PAGES - NOVEMBER 2007 / 0-632-05253-8 [ISBN13: 978-0-632-05253-0] HB

VOLUME TWO - 512 PAGES - NOVEMBER 2007 / 0-632-05254-6 [ISBN13: 978-0-632-05254-7] HB

NEW



Glacier Science and Environmental Change

Edited by **PETER G. KNIGHT**

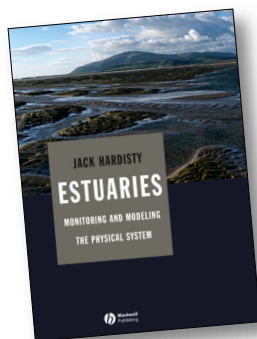
Keele University

Written by the world's foremost authorities in the subject, this reference work examines contemporary issues in glaciology. Using a host of case studies, it explores the interface between glacier science and environmental change, in the past, present, and future.

- ❑ Contains state-of-the-art reviews of the key topics in glaciology.
- ❑ Provides an interdisciplinary synthesis of the issues that draw together the research efforts of glaciologists and scientists from other areas such as geologists, hydrologists, and climatologists.
- ❑ Includes a color-plate section (with selected extra figures provided in color at www.blackwellpublishing.com/knight).

544 PAGES - **AUGUST 2006**
1-4051-0018-4 [ISBN13: 978-1-4051-0018-2] HB

NEW IN 2007



Estuaries

Monitoring and Modeling the Physical System

JACK HARDISTY

University of Hull

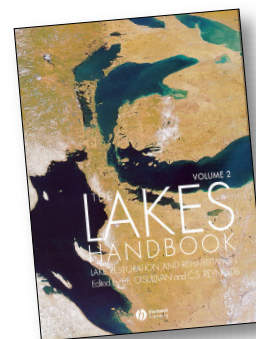
This practical and accessible book examines the processes occurring in these complex natural environments where constantly changing water depths generate rapidly reversing currents and transport vast quantities of salt, heat, and sediment on a daily basis. It offers extensive information about the geological evolution of estuaries, and details of bathymetry, tides, currents, salt and heat, and suspended sediment.

By carefully building a working computer model which accurately emulates the complexities inherent in estuaries, students learn quickly to model the tides and currents, and then to build and test salinity, temperature, and suspended sediment modules.

The book is supported by a website at www.blackwellpublishing.com/hardisty which includes:

- ❑ Regularly updated dynamic internet references
- ❑ Excel routines for individual formulae and diagrams
- ❑ Full coding for the estuarine model.

176 PAGES - **JANUARY 2007**
1-4051-4642-7 [ISBN13: 978-1-4051-4642-5] HB



The Lakes Handbook

Edited by **P. E. O'SULLIVAN**
& **C. S. REYNOLDS**

University of Plymouth; Centre for Ecology and Hydrology

"The editors and their contributors have provided a treasure chest of information... researchers would be well advised to recommend it to their librarians."

SILNEWS

"Contains a wealth of information on lake restoration and rehabilitation... This is an excellent book and addresses its title very well."

ENVIRONMENTAL CONSERVATION

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 addresses the physical and biological aspects of lakes pertinent to lake management, emphasizing those aspects particularly relevant to large, still bodies of water. Volume Two then considers lake management, with particular emphasis on sustainability, restoration and rehabilitation.

TWO VOLUME SET - 528 PAGES - **2005**
0-632-04794-1 [ISBN13: 978-0-632-04794-9] HB
VOLUME ONE - 712 PAGES - **2003**
0-632-04797-6 [ISBN13: 978-0-632-04797-0] HB
VOLUME TWO - 568 PAGES - **2004**
0-632-04795-X [ISBN13: 978-0-632-04795-6] HB

NEW IN 2007

Stable Isotopes in Paleoclimatology

JONATHAN HOLMES & M. MASLIN

Both University College London

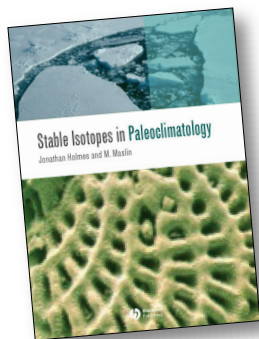
This text examines the application of stable isotopes in the reconstruction of past climatic conditions. With particular emphasis on the Quaternary, it provides an overview of isotope records in marine sediments, ice cores and continental archives, and examines how these may be interpreted.

In addition to the in-depth analysis of individual paleoclimatic archives, it includes chapters on the fundamentals of stable isotope geochemistry and factors controlling the distribution of stable isotopes in the modern environment. It discusses the stable isotopes of hydrogen, boron, carbon, nitrogen and silicon.

It is essential reading for advanced undergraduates and graduates in paleoenvironmental research, and will also be of value to teachers of undergraduate courses in environmental change who do not have a background in stable isotopes.



SERIES: BLACKWELL QUATERNARY GEOSCIENCE SERIES
SERIES EDITOR: RAY BRADLEY
224 PAGES - **DECEMBER 2007**
1-4051-1801-6 [ISBN13: 978-1-4051-1801-9] PB



NEW

The Cryosphere and Global Environmental Change

OLAV SLAYMAKER & RICHARD KELLY

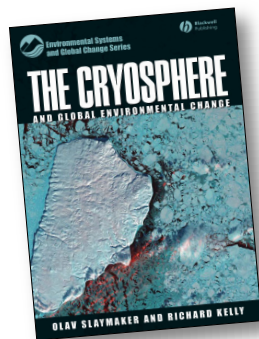
University of British Columbia; University of Waterloo

This is the first textbook to consider all aspects of the cryosphere system in the context of global environmental change driven by human activity and climate. It covers ice sheets, glacier ice, permafrost, river and lake ice, sea ice and snow, and explores the complex interactions between the cryosphere and environmental change.

- ❑ Provides a wealth of data to inform the current global environmental change debate.
- ❑ Looks at the evidence, process, and patterns of cryosphere change, on local and global scales, including anthropogenic and climatic factors.
- ❑ Describes a new concept of cryosphere transience and landscape transition which links climate, hydrology, ecology and geomorphology.
- ❑ Demonstrates how modern and historical remote sensing measures have been used to advance understanding of the cryosphere.



SERIES: ENVIRONMENTAL SYSTEMS AND GLOBAL CHANGE SERIES
SERIES EDITORS: ANTHONY ORME, TOM SPENCER & OLAV SLAYMAKER
272 PAGES - **DECEMBER 2006**
1-4051-2976-X [ISBN13: 978-1-4051-2976-3] PB



NEW KEY TEXTBOOK



Global Warming

Understanding the Forecast

DAVID ARCHER

University of Chicago

"Rigorous but rewarding, David Archer's book takes us through the science of global warming so that we can more effectively assess where the world may be heading."

ANDREW S. GOUDIE, UNIVERSITY OF OXFORD

"David Archer has provided a masterful and lucid explanation of a complex environmental problem. This is all you need to understand the issues."

RAY BRADLEY, UNIVERSITY OF MASSACHUSETTS

Written in an accessible way, this textbook examines the processes of climate change and climate stability, from the distant past to the distant future.

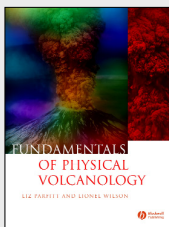
- ❑ Gives a detailed examination of the greenhouse effect, the carbon cycle and discussion of what the future holds for the global climate.
- ❑ Explores policy and economic issues as well as scientific evidence.
- ❑ Assumes no specialist scientific knowledge.

A companion website, www.blackwellpublishing.com/archer, provides online interactive computer models of the physics and chemistry behind the global warming forecast, which can be used to support suggested student projects included at the end of each chapter.



208 PAGES - **OCTOBER 2006**
1-4051-4039-9 [ISBN13: 978-1-4051-4039-3] PB

NEW KEY TEXTBOOK



Fundamentals of Physical Volcanology

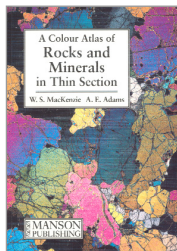
LIZ PARFITT & LIONEL WILSON

Both University of Lancaster

Invaluable reading for undergraduates, this book gives an overview of the processes that control when and how volcanoes erupt. It provides an introduction to eruption types, the development of physical volcanology and subsurface processes, eruption mechanisms, the nature of volcanic eruptions and their products, and how volcanoes affect the environment.

It shows how different areas of science have been combined to reach our current level of knowledge of volcanic systems and brings 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.

288 PAGES - NOVEMBER 2007
0-632-05443-3 (ISBN13: 978-0-632-05443-5) PB



A Colour Atlas of Rocks and Minerals in Thin Section

W. S. MACKENZIE & A. E. ADAMS

University of Manchester; Manchester Metropolitan University

"This is an excellent book. I am sure that this book will be welcomed both by beginners to thin-section studies, and by those of us who have become a little rusty."

GEOLOGY TODAY

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 color photomicrographs, how to observe, describe and identify thin section samples of rocks and minerals using the polarizing 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 - 1994
1-8745-4517-0 (ISBN13: 978-1-8745-4517-0) PB

Igneous and Metamorphic Petrology

Second Edition

MYRON G. BEST

Brigham Young University

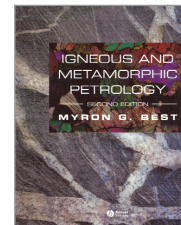
"Brings together a large amount of key information on igneous and metamorphic rocks."

THE AUSTRALIAN GEOLOGIST

Gives students a balanced synthesis of advances in petrology and analytical tools over the last 20 years, 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 - 2002
1-4051-0588-7 (ISBN13: 978-1-4051-0588-0) PB



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Principles and Practice of Soil Science

The Soil as a Natural Resource
Fourth Edition

ROBERT E. WHITE
The University of Melbourne

"If you are thinking of changing your teaching text, then I suggest that you give this new edition a close look, it has much to commend it."

EUROPEAN JOURNAL OF SOIL SCIENCE


"Has the edge on other introductory general soil science texts."

GEODERMA

An essential introduction for students in environmental and agricultural science, ecology, soil and land management, natural resource management and environmental engineering.

The fourth edition of this text includes:

- ☑ 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
- ☑ Discussion of soil management and environmental impacts
- ☑ Emphasis on the applications of soil science to the solution of practical problems in soil and land management
- ☑ Real world examples drawn from the author's international experience in the field
- ☑ A thoroughly updated art package, with new color photographs and diagrams to help students visualize key concepts
- ☑ 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.

 384 PAGES - 2005
0-632-06455-2 (ISBN13: 978-0-632-06455-7) PB

Essential Soil Science

A Clear and Concise Introduction to Soil Science

M. R. ASHMAN & G. PURI


Formerly at IACR, Rothamsted; National Assembly for Wales

"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

"I can wholeheartedly recommend this book to students whose course includes a module of soil science, and indeed recommend it to students on soil science degrees as a general introduction or a last minute revision guide."

JOHN S. CONWAY, ROYAL AGRICULTURAL COLLEGE, CIRENCESTER

 208 PAGES - 2002
0-632-04885-9 (ISBN13: 978-0-632-04885-4) PB

Soil Erosion and Conservation

Third Edition


R. P. C. MORGAN

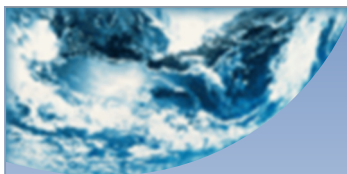
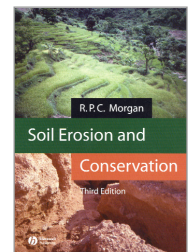
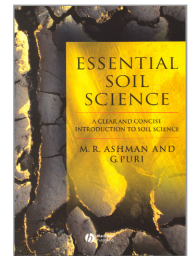
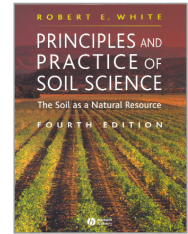
Cranfield University

"...an admirable text built on the author's 35 years of research and teaching... I strongly recommend it."

EUROPEAN JOURNAL OF SOIL SCIENCE

Invaluable to upper-level undergraduate and graduate students, this book covers 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.

 320 PAGES - 2004
1-4051-1781-8 (ISBN13: 978-1-4051-1781-4) PB
ARTWORK CD-ROM FOR INSTRUCTORS
1-4051-3423-2 (ISBN13: 978-1-4051-3423-1)



Earth Pages

Earth Sciences and News from the Geological World

www.earth-pages.com

NEW KEY TEXTBOOK

Tectonic Geomorphology of Mountains

A New Approach to Paleoseismology

WILLIAM B. BULL

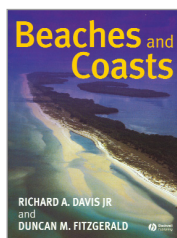
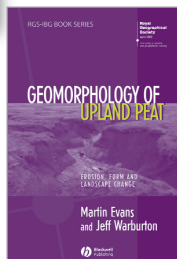
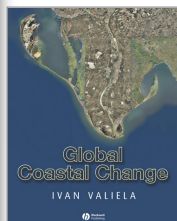
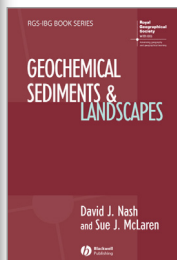
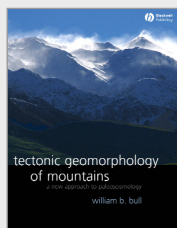
Formerly of University of Arizona

With a balance of theory and practical applications, this book is essential reading for research geologists and upper-level undergraduate and graduate students in the earth sciences.

- ▣ Describes how tectonic events influence geomorphic processes and explores how landscapes respond to tectonic deformation in the ways in which they are weathered, washed, and abraded.
- ▣ Uses new approaches to enhance theoretical models of landscape evolution and to solve practical problems such as the assessment of earthquake hazards.
- ▣ Includes much previously unpublished research and theory.
- ▣ Examines how to use key landforms as reference levels in changing landscapes, estimate rates of mountain-range uplift, and map seismic shaking caused by prehistoric earthquakes.
- ▣ Presents a diverse range of examples from around the world, from the humid Southern Alps of New Zealand to the semi-arid Panamint Range of southeastern California.



320 PAGES - JUNE 2007 / 1-4051-5479-9 (ISBN13: 978-1-4051-5479-6) HB



NEW IN 2007

Geochemical Sediments and Landscapes

Edited by **DAVID J. NASH & SUE J. MCLAREN**

University of Brighton; University of Leicester

Internationally recognised experts offer a state-of-the-art review of terrestrial geochemical sedimentology. The volume covers the full range of sediments from duricrusts (calcrete, laterite and silcrete) to deposits precipitated in various spring, lake, cave and near-coastal environments.

Each chapter summarizes the main characteristics of the sediments: morphological, chemical and mineralogical. Distribution, mechanisms of formation or accumulation, paleo-environmental significance, and relationships to other terrestrial geochemical sediments are also addressed.

SERIES: RGS-IBG BOOK SERIES / **SERIES EDITORS:** KEVIN WARD & JOANNA BULLARD
352 PAGES - AUGUST 2007 / 1-4051-2519-5 (ISBN13: 978-1-4051-2519-2) HB

NEW

Global Coastal Change

IVAN VALIELA

Boston University

"This text covers a great deal of material providing a useful mix of classic and modern studies to back up the cases presented. In doing this in one volume, the author has produced a great one-stop introductory resource which is just what is needed if we are to tackle this growing problem."

TEGNEWS, BRITISH ECOLOGICAL SOCIETY

Evaluating the evidence of change at a local and global level this exciting book explores the wide range of environmental factors affecting coastal environments and the marine systems of the world. These factors include atmospheric changes, sea level rise, alterations in freshwater and sediment use and transport, toxins, over-fishing, alien species, and eutrophication.

Using real-world examples, each chapter provides a detailed review of the evidence for changes and possible solutions to resulting problems. It will be an invaluable reference for upper level undergraduates, graduates, and professionals interested in marine environmental science.

376 PAGES - JULY 2006 / 1-4051-3685-5 (ISBN13: 978-1-4051-3685-3) PB

ALSO OF INTEREST

Beaches and Coasts

RICHARD A. DAVIS JR. & DUNCAN M. FITZGERALD

448 PAGES - 2003 / 0-632-04308-3 (ISBN13: 978-0-632-04308-8) HB

Geomorphology and River Management

GARY BRIERLEY & KIRSTIE FRYIRS

416 PAGES - 2004 / 1-4051-1516-5 (ISBN13: 978-1-4051-1516-2) PB

Rivers and Floodplains

JOHN S. BRIDGE

504 PAGES - 2003 / 0-632-06489-7 (ISBN13: 978-0-632-06489-2) PB

NEW IN 2007

Geomorphology of Upland Peat

Erosion, Form and Landscape Change

MARTIN EVANS & JEFF WARBURTON

University of Manchester; University of Durham

Contains a detailed synthesis of existing literature on peat erosion, as well as new research ideas and data from two leading experts in the field. The book is highly illustrated with photographs and original drawings. While much of the research focuses on upland mires in the UK, the novel approaches and techniques presented in this volume will be of great interest and benefit to those working in a broader context of organic sediments in other environments.

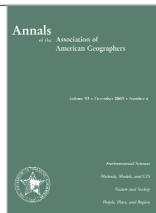
SERIES: RGS-IBG BOOK SERIES / **SERIES EDITORS:** KEVIN WARD & JOANNA BULLARD
296 PAGES - APRIL 2007 / 1-4051-1507-6 (ISBN13: 978-1-4051-1507-0) HB

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KARL ZIMMERER, MEI-PO KWAN,
& RICHARD ASPINALL

Published on behalf of the Association of American Geographers

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www.basinresearch.org



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An International Journal

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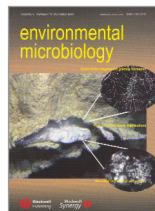
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Published on behalf of Geologists in the Nordic Countries

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DAVID A. STAHL, EDWARD F. DELONG,
MICHAEL WAGNER & MIKE JETTON

Published jointly with the Society for Applied Microbiology

www.blackwellpublishing.com/EMI

FEMS Microbiology Ecology

Edited by JAMES I. PROSSER

Published on behalf of the Federation of European Microbiological Societies

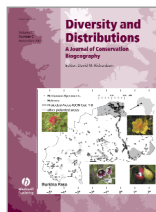
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Edited by ROGER HAYTER

Published on behalf of the Canadian Association of Geographers / l'Association canadienne des géographes

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Geobiology

Edited by KURT KONHAUSER

www.geobiol.com

Geofluids

Edited by STEVE INGBRITSEN,
RICHARD WORDEN & BRUCE YARDLEY
www.geofluids.org

Geografiska Annaler: Series A, Physical Geography

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GEORGE CURRY & ROY JONES
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Geology Today

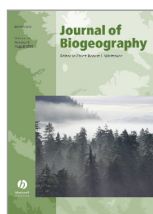
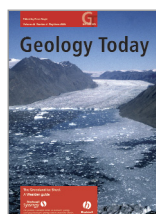
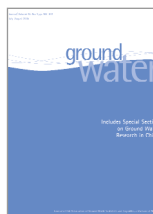
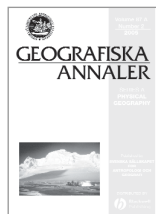
Edited by PETER DOYLE
Published on behalf of The Geologists' Association and The Geological Society of London
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Geophysical Journal International

Edited by C. J. EBINGER
Published on behalf of The Royal Astronomical Society and The Deutsche Geophysikalische Gesellschaft
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Geophysical Prospecting

Edited by A. L. VESNAVER
Published on behalf of the European Association of Geoscientists & Engineers
www.geophysicalprospecting.org



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Ground Water Monitoring & Remediation

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and Related Topics
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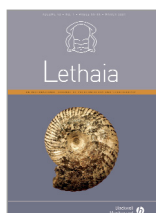
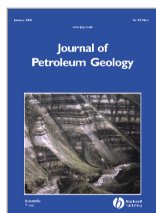
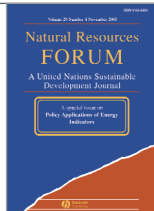
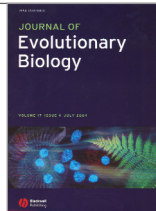
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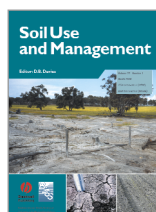
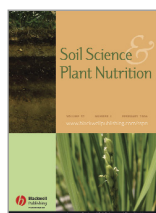
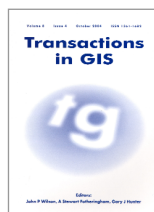
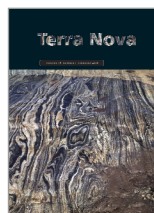
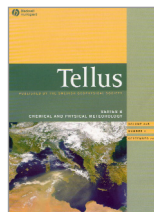
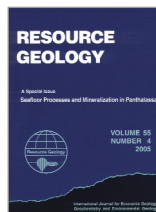
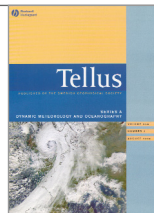
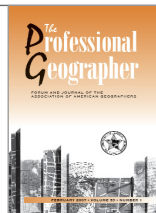
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