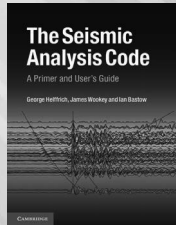


CAMBRIDGE

NEW AND FEATURED BOOKS *from* CAMBRIDGE



The Seismic Analysis Code

A Primer and User's Guide

GEORGE HELFFRICH,
JAMES WOOKEY, AND IAN BASTOW

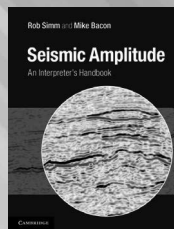
\$95.00/£60.00: Hb: 978-1-107-04545-3: 183 pp.
\$55.00/£30.00: Pb: 978-1-107-61319-5

Seismic Amplitude

An Interpreter's Handbook

ROB SIMM AND MIKE BACON

\$80.00/£45.00: Hb: 978-1-107-01150-2: 279 pp.

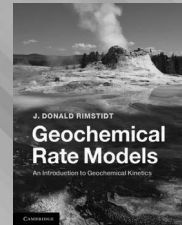


Geochemical Rate Models

An Introduction to Geochemical Kinetics

J. DONALD RIMSTIDT

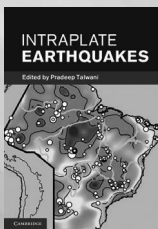
\$75.00/£45.00: Hb: 978-1-107-02997-2: 239 pp.



Large Igneous Provinces

RICHARD E. ERNST

\$130.00/£85.00: Hb: 978-0-521-87177-8: 630 pp.



Intraplate Earthquakes

PRADEEP TALWANI

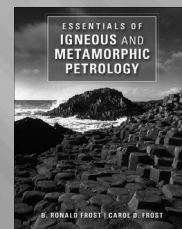
\$120.00/£80.00: Hb: 978-1-107-04038-0: 398 pp.

Textbooks

Essentials of Igneous and Metamorphic Petrology

B. RONALD FROST
AND CAROL D. FROST

\$125.00/£75.00: Hb: 978-1-107-02754-1: 314 pp.
\$65.00/£35.00: Pb: 978-1-107-69629-7

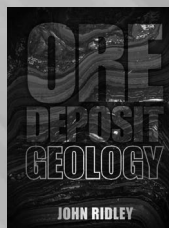
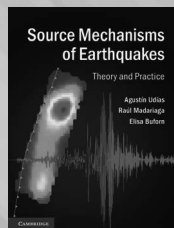


Source Mechanisms of Earthquakes

Theory and Practice

AGUSTÍN UDÍAS, RAÚL MADARIAGA,
AND ELISA BUFORN

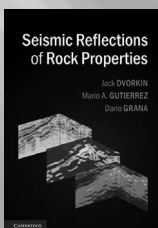
\$75.00/£45.00: Hb: 9781107040274: 311 pp.



Ore Deposit Geology

JOHN RIDLEY

\$85.00/£40.00: Hb: 978-1-107-02222-5: 409 pp.



Seismic Reflections of Rock Properties

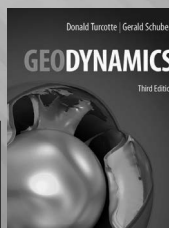
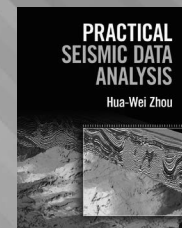
JACK DVORKIN,
MARIO A. GUTIERREZ,
AND DARIO GRANA

\$75.00/£45.00: Hb: 978-0-521-89919-2: 338 pp.

Practical Seismic Data Analysis

HUA-WEI ZHOU

\$75.00/£45.00: Hb: 978-0-521-19910-0: 496 pp.



Geodynamics

Third Edition

DONALD L. TURCOTTE
AND GERALD SCHUBERT

\$150.00/£80.00: Hb: 978-1-107-00653-9: 560 pp.
\$95.00/£47.50: Pb: 978-0-521-18623-0

*Announcing the Special Publications of the
International Union of Geodesy and Geophysics book series!*

Extreme Natural Hazards, Disaster Risks and Societal Implications

EDITORS

ALIK ISMAIL-ZADEH, JAIME URRUTIA-FUCUGAUCHI,
ANDRZEJ KIJKO, KUNIYOSHI TAKEUCHI,
AND ILYA ZALIAPIN

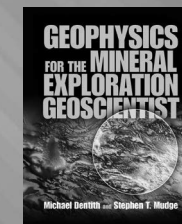
\$140.00/£90.00: Hb: 978-1-107-03386-3: 413 pp.

Geophysics for the Mineral Exploration Geoscientist

MICHAEL DENTITH AND
STEPHEN T. MUDGE

\$75.00/£45.00: Hb: 978-0-521-80951-1: 454 pp.

Prices subject to change.



Most books available in electronic format!
Visit ebooks.cambridge.org to browse titles.

www.cambridge.org/earth
@CambUP_earthsci



CAMBRIDGE
UNIVERSITY PRESS

PUBLISHED BY THE PRESS SYNDICATE OF THE UNIVERSITY OF CAMBRIDGE
The Pitt Building, Trumpington Street, Cambridge CB2 1RP, United Kingdom

CAMBRIDGE UNIVERSITY PRESS
The Edinburgh Building, Cambridge CB2 8RU, United Kingdom
32 Avenue of the Americas, New York, NY 10013–2473, USA
477 Williamstown Road, Port Melbourne, VIC 3207, Australia
Ruiz de Alarcón 13, 28014 Madrid, Spain
Dock House, The Waterfront, Cape Town 8001, South Africa

GEOLOGICAL MAGAZINE

CONTENTS

ORIGINAL ARTICLES

Mineral ages and zircon Hf isotopic composition of the Andong ultramafic complex: implications for the evolution of Mesozoic subduction system and subcontinental lithospheric mantle beneath SE Korea

Jeong, G. Y., Cheong, C.-S., Yi, K., Kim, J., Kim, N., Kwon, S.-K., Geng, J.-Z. & Li, H.-K. 765–776

Palaeomagnetism and magnetic fabrics of the Late Palaeozoic volcanism in the Castejón-Laspaúles basin (Central Pyrenees). Implications for palaeoflow directions and basin configuration

Izquierdo-Llavall, E., Casas-Sainz, A., Oliva-Urcia, B. & Scholger, R. 777–797

The origin of celestine–quartz–calcite geodes associated with a basaltic dyke, Makhtesh Ramon, Israel

Anenburg, M., Bialik, O. M., Vapnik, Y., Chapman, H. J., Antler, G., Katzir Y. & Bickle, M. J. 798–815

U–Pb age and Lu–Hf signatures of detrital zircon from Palaeozoic sandstones in the Oslo Rift, Norway

Kristoffersen, M., Andersen, T. & Andresen, A. 816–829

Carbon isotope signatures of pedogenic carbonates from SE China: rapid atmospheric $p\text{CO}_2$ changes during middle–late Early Cretaceous time

Li, X., Jenkyns, H. C., Zhang, C., Wang, Y., Liu, L. & Cao, K. 830–849

Sandstone composition of the Upper Jurassic Emuerhe Formation from the Mohe Basin, China

Zhang, M. M., Liu, Z. J., Fang, S. & Sun, Q. S. 850–863

Palaeoenvironmental changes at Col des Tribes (Montagne Noire, France), a reference section for the Famennian of north Gondwana-related areas

Girard, C., Cornée, J.-J., Corradini, C., Fravallo, A. & Feist, R. 864–884

Vertical movements along the northern border of the West African Craton: the Reguibat Shield and adjacent basins

Leprêtre, R., Barbarand, J., Missenard, Y., Leparmentier, F. & Lamotte, D. F. D. 885–898

Contrasting magma emplacement mechanisms within the Rogart igneous complex, NW Scotland, record the switch from regional contraction to strike-slip during the Caledonian orogeny

Kocks, H., Strachan, R. A., Evans, J. A. & Fowler, M. 899–915

Zircon U–Pb ages, major and trace elements, and Hf isotope characteristics of the Tiantangzhai granites in the North Dabie orogen, Central China: tectonic implications

Deng, X., Yang, K., Polat, A., Kusky, T. M. & Wu, K. 916–937

Smithian shoreline migrations and depositional settings in Timpoweap Canyon (Early Triassic, Utah, USA)

Olivier, N., Brayard, A., Fara, E., Bylund, K. G., Jenks, J. F., Vennin, E., Stephen, D. A. & Escarguel, G. 938–955

This journal offers open access publishing through Cambridge Open Option. Please visit journals.cambridge.org/openoption for more information.

Cambridge Journals Online

For further information about this journal please go to the journal web site at: journals.cambridge.org/geo



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS