

**New and Featured Books *from* Cambridge!**

**Foraminifera and their Applications**

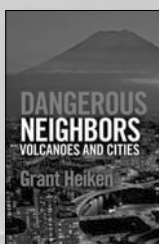
Robert Wynn Jones

\$75.00: Hb: 978-1-107-03640-6: 401 pp.

**Dangerous Neighbors:  
Volcanoes and Cities**

Grant Heiken

\$30.00: Hb: 978-1-107-03923-0:  
196 pp.



**The Seismic Analysis Code  
A Primer and User's Guide**

George Helffrich,  
James Wookey, and Ian Bastow

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

**Seismic Amplitude**

An Interpreter's Handbook

Rob Simm and Mike Bacon

\$80.00: Hb: 978-1-107-01150-2: 270 pp.

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

**Extreme Natural Hazards,  
Disaster Risks and  
Societal Implications**

*Edited by Alik Ismail-Zadeh,  
Jaime Urrutia-Fucugauchi,  
Andrzej Kijko, Kuniyoshi Takeuchi,  
and Ilya Zaliapin*

\$140.00: Hb: 978-1-107-03386-3: 464 pp.

**Geochemical Rate Models**

An Introduction to Geochemical Kinetics

J. Donald Rimstidt

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

**Mid-Ocean Ridges**

Roger Searle

\$80.00: Hb: 978-1-107-01752-8: 330 pp.

**Arid and Semi-Arid Geomorphology**

Andrew S. Goudie

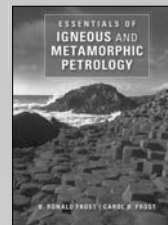
\$85.00: Hb: 978-1-107-00554-9: 461 pp.

**TEXTBOOKS**

**Essentials of  
Igneous and Metamorphic  
Petrology**

B. Ronald Frost and  
Carol D. Frost

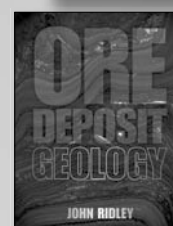
\$125.00: Hb: 978-1-107-02754-1  
\$65.00: Pb: 978-1-107-69629-7:  
314 pp.



**Ore Deposit Geology**

John Ridley

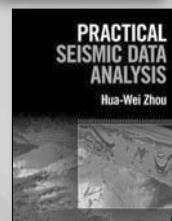
\$85.00: Hb: 978-1-107-02222-5:  
409 pp.



**Practical Seismic  
Data Analysis**

Hua-Wei Zhou

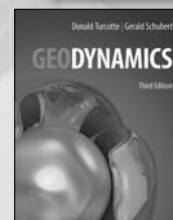
\$75.00: Hb: 978-0-521-19910-0:  
496 pp.



**Geodynamics,  
3rd Edition**

Donald L. Turcotte and  
Gerald Schubert

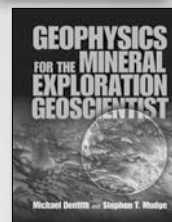
\$150.00: Hb: 978-1-107-00653-9  
\$95.00: Pb: 978-0-521-18623-0:  
560 pp.



**Geophysics  
for the Mineral  
Exploration Geoscientist**

Michael Dentith and  
Stephen T. Mudge

\$75.00: Hb: 978-0-521-80951-1:  
490 pp.



Most books available in electronic format!  
Visit [ebooks.cambridge.org](http://ebooks.cambridge.org) to browse titles.

Browse the Earth and Environmental Sciences  
online catalogs at [www.cambridge.org/earth](http://www.cambridge.org/earth)

*Prices subject to change.*

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

Source character, mixing, fractionation and alkali metasomatism in Palaeoproterozoic greenstone dykes, Dannemora area, NE Bergslagen region, Sweden

Dahlin, P., Johansson, Å. & Andersson, U. B. 573–590

An Early Silurian 'Herefordshire' myodocope ostracod from Greenland and its palaeoecological and palaeobiogeographical significance

Perrier, V., Siveter, D. J., Williams, M. & Lane, P. D. 591–599

A revision of *Sinaspideretes wimani* Young & Chow, 1953 (Testudines: Cryptodira: Trionychoidea) from the Jurassic of the Sichuan Basin, China

Tong, H., Li, L. & Ouyang, H. 600–610

Timing of post-collisional volcanism in the eastern part of the Variscan Belt: constraints from SHRIMP zircon dating of Permian rhyolites in the North-Sudetic Basin (SW Poland)

Awdankiewicz, M., Kryza, R. & Szczepara, N. 611–628

Geochronology, geochemistry and petrogenesis of the late Palaeoproterozoic A-type granites from the Dunhuang block, SE Tarim Craton, China: implications for the break-up of the Columbia supercontinent

Yu, S.-Y., Zhang, J.-X., Zhao, X.-L., Gong, J.-H. & Li, Y.-S. 629–648

Taphonomy of diploporite (Echinodermata) holdfasts from a Silurian hardground, southeastern Indiana, United States: palaeoecologic and stratigraphic significance

Thomka, J. R. & Brett, C. E. 649–665

Geochemical and Sr–Nd isotopic constraints on the petrogenesis and geodynamic significance of the Jebilet magmatism (Variscan Belt, Morocco)

Essaifi, A., Samson, S. & Goodenough, K. 666–691

Eocene development of the northerly active continental margin of the Southern Neotethys in the Kyrenia Range, north Cyprus

Robertson, A. H. F., McCay, G. A., Tasli, K. & Yildiz, A. 692–731

Torellian (c. 640 Ma) metamorphic overprint of Tonian (c. 950 Ma) basement in the Caledonides of southwestern Svalbard

Majka, J., Be'eri-Shlevin, Y., Gee, D. G., Czerny, J., Frei, D. & Ladenberger, A. 732–748

### RAPID COMMUNICATION

The Triassic U–Pb age for the aquatic long-necked protorosaur of Guizhou, China

Wang, Y., Yang, D., Han, J., Wang, L., Yao, J. & Liu, D. 749–754

### DISCUSSION

Discussion of 'Metamorphic *P–T* and retrograde path of high-pressure Barrovian metamorphic zones near Cairn Leuchan, Caledonian orogen, Scotland'

Viete, D. R., Oliver, G. J. H. & Wilde, S. A. (comment) 755–763

Aoki, K., Windley, B. F., Maruyama, S. & Omori, S. (reply)

This journal offers open access publishing through Cambridge Open Option. Please visit [journals.cambridge.org/openoption](http://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](http://journals.cambridge.org/geo)



MIX  
Paper from  
responsible sources  
FSC® C007785

CAMBRIDGE  
UNIVERSITY PRESS