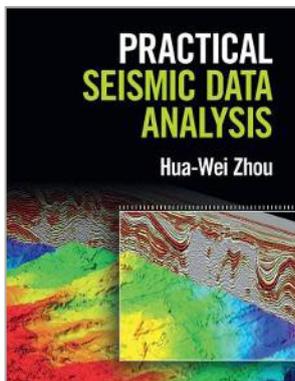


Practical Seismic Data Analysis



By Hua-Wei Zhou

CAMBRIDGE UNIVERSITY PRESS

496 pages | Hardback
1st edition | January 2014
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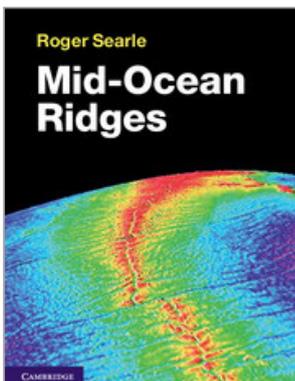
Price: £45 (~€56)

Publisher's summary (abridged)

This [modern introduction](#) to seismic data processing in both exploration and global geophysics demonstrates practical applications through real data and tutorial examples. The underlying physics and mathematics of the various seismic analysis methods are presented, giving students an appreciation of their limitations and potential for creating models of the sub-surface. Designed for a one-semester course, this textbook discusses key techniques within the context of the world's ever increasing need for petroleum and mineral resources – equipping upper undergraduate and graduate students with the tools they need for a career in industry. Examples presented throughout the text allow students to compare different methods and can be used in demonstrations with the instructor's software of choice.

Mid-Ocean Ridges

A book review



By Roger Searle

CAMBRIDGE UNIVERSITY PRESS

330 pages | Hardback
1st edition | September 2013
ISBN 9781107017528

Price: £45 (~€56)

Within each chapter, Searle builds up from the foundations of the topic to the latest research in the area, rapidly equipping the reader with the necessary background and building on this basic knowledge to give them a deeper understanding of the subject. This makes the book accessible to, and appropriate for, researchers at any level, from undergraduate students to senior scientists. Furthermore, each chapter is broken down into bite-sized segments with summary of key points to complete the package, making it an excellent reference text. The book concludes with a thorough synthesis of MOR dynamics, which ties together the topics covered in each chapter.

Mid-Ocean Ridges is richly illustrated with maps, charts, diagrams and data that support the text and detail the current understanding of MOR systems. Such figures are invaluable when comprehending a system so far from sight. In addition, you can find a directory of MORs and related features around the world, as well as an extensive glossary to support students and scientists who may be unfamiliar with MOR terminology in the final pages. The book also includes a carefully selected reference list that serves as a superb starting point for research in this field.

If I could ask for one thing more from this book, it would be an overview of the fauna associated with ridge systems, but this topic alone could be another volume in itself. In covering the dynamic processes associated with MORs, this book is an excellent resource. It is not only suitable for the geoscientists engaged in this area of research, but also the volcanologists and oceanographers whose work is coupled to these dynamic systems.

Mid-ocean ridges (MORs) span some 65,000 km across the sea floor and are the critical point at which new crust is formed on the planet. As such, they are a crucial area of study for any geoscientist. In his recently published [book](#), Roger Searle provides a fantastic overview of these continent-forming ranges that split the Earth's underwater crust. After opening with a brief history of MOR study and the techniques used to investigate these features, Searle launches into the fundamentals of MOR dynamics. The volume covers the oceanic lithosphere, the structure and composition of the crust, the volcanic, hydrothermal and tectonic processes associated with MORs and their role in plate boundary formation.

Each chapter is a self-contained package of information, so the reader can tackle a particular topic, say, hydrothermal processes associated with MOR systems, without prior knowledge of mid-ocean ridges, or without reading the book cover to cover. That said, anyone who were to read it cover to cover, would not be disappointed. Searle details the dynamic aspects of the world's mid-ocean ridges with incredible clarity, delving into their history, composition, structure and processes, and incorporating some of the latest research in the field.

Sara Mynott

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