

# Topics in Geophysics

H. C. Soffel

## Paläomagnetismus und Archäomagnetismus

*Eine Einführung für Geowissenschaftler*

1991. Etwa 250 S. 219 Abb Brosch DM 78,- ISBN 3-540-53890-9

Im Gegensatz zu anderen Büchern über Paläomagnetismus bezieht dieses Buch den Gesteinsmagnetismus mit ein. Dadurch erlaubt es auch Wissenschaftlern aus Nachbardisziplinen (Geologen, Stratigraphen, Tektonikern, Mineralogen, Petrologen, Geographen und Archäologen), Möglichkeiten und Grenzen dieser Methode besser beurteilen zu können.

I. Palaz, S. Sengupta (Eds.)

## Automated Pattern Analysis in Petroleum Exploration

1991. Approx. 305 pp. 187 figs. Hardcover DM 148,- ISBN 3-540-97468-7

Here is a state-of-the-art survey of artificial intelligence in modern exploration programs. Focussing on standard exploration procedures, the contributions examine the advantages and pitfalls of using these new techniques, and, in the process, provide new, more accurate and consistent methods for solving old problems. They show how expert systems can provide the integration of information that is essential in the petroleum industry when solving the complicated questions facing the modern petroleum geoscientist.

D. Bahat

## Tectonofractography

1991. XVIII, 354 pp. 197 figs. in 299 parts. Hardcover DM 298,- ISBN 3-540-53281-1

This outstanding multidisciplinary study reviews the existence and behaviour of fractures (joints) and fracture surface morphology (fractography). The classification of characteristics will not only be useful for structural geologists, oil-, hydro-, and engineering geologists, but also for material sciences and environmental techniques.

Y. V. Riznichenko

## Problems of Seismology

1992. Approx. 610 pp. Hardcover DM 298,- ISBN 3-540-54230-2

These most significant papers by Y. V. Riznichenko are related to fundamental problems of seismology such as Source Seismology, Seismic Hazard, Seismotectonic Flow of Rock Masses, Geoacoustics and Structural Seismology. For the first time a complete overview of his work on seismology is available in English.

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R. P. Gupta

## Remote Sensing Geology

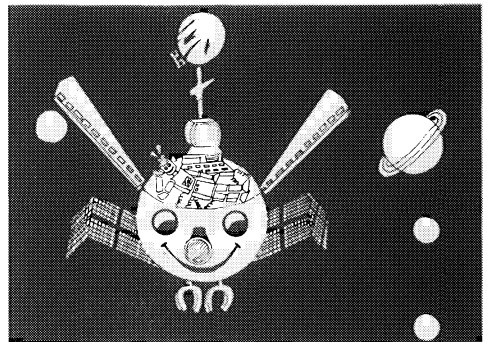
1991. XVI, 356 pp. 289 figs. 36 tabs. Hardcover DM 198,- ISBN 3-540-52805-9

**Remote Sensing Geology** gives a full treatment of the subject by discussing remote sensing methods and applying them to geo-exploration.

The reader will find a wealth of information on:

- Various aspects of geological remote sensing, ranging from laboratory spectra of minerals and rocks, ground truth, to aerial and spaceborne remote sensing.
- The integration of photogeology into remote sensing.
- Remote sensing as a tool of geo-exploration.
- A wide spectrum of geoscientific applications of remote sensing ranging from meso- to global scale.

The subject matter is introduced at a basic level serving students as an introductory text on remote sensing. The main part of the book will also be of value to active researchers.



Future remote sensor - a cartoon sketch

P. Weimer, M. H. Link (Eds.)

## Seismic Facies and Sedimentary Processes of Submarine Fans and Turbidite Systems

1991. Approx. 455 pp. 403 figs. 20 tabs. (Frontiers in Sedimentary Geology) Hardcover DM 168,- ISBN 3-540-97469-5

**Contents:** Preface - Introduction. - Techniques and Topics in Turbidite Research. - Seismic Facies and Sedimentary Processes of Ancient Submarine Fans and Turbidite Systems. - Seismic Facies and Sedimentary Processes of Modern Submarine Fans and Turbidite Systems. - Appendix I: Abstracts. - Index

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