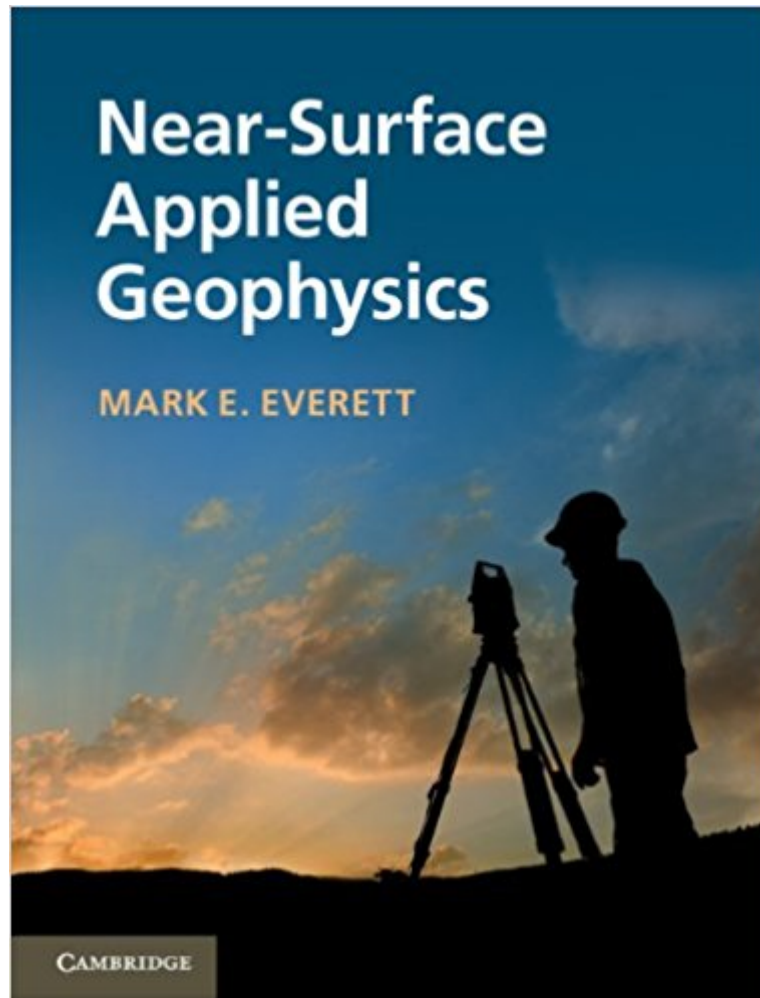




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Near-Surface Applied Geophysics



Synopsis

Just a few meters below the Earth's surface lie features of great importance, from geological faults which can produce devastating earthquakes, to lost archaeological treasures! This refreshing, up-to-date book explores the foundations of interpretation theory and the latest developments in near-surface techniques, used to complement traditional geophysical methods for deep-exploration targets. Clear but rigorous, the book explains theory and practice in simple physical terms, supported by intermediate-level mathematics. Techniques covered include magnetics, resistivity, seismic reflection and refraction, surface waves, induced polarization, self-potential, electromagnetic induction, ground-penetrating radar, magnetic resonance, interferometry, seismoelectric and more. Sections on data analysis and inverse theory are provided and chapters are illustrated by case studies, giving students and professionals the tools to plan, conduct and analyze a near-surface geophysical survey. This is an important textbook for advanced-undergraduate and graduate students in geophysics and a valuable reference for practising geophysicists, geologists, hydrologists, archaeologists, and civil and geotechnical engineers.

Book Information

File Size: 39908 KB

Print Length: 419 pages

Simultaneous Device Usage: Up to 4 simultaneous devices, per publisher limits

Publisher: Cambridge University Press; 1 edition (April 30, 2013)

Publication Date: May 10, 2013

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B00BM4TH98

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Screen Reader: Supported

Enhanced Typesetting: Enabled

Best Sellers Rank: #353,164 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #17

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Customer Reviews

This book was used for the first time in my Applied Geophysics course this past semester. This book was much harder to work with than the previous textbook for the course. There is no chapter on gravity methods, and the sections that are there seem to be lacking in clarity and useful equations. I would love to return this and purchase the other textbook instead, which I feel I could actually use.

good summary of different geophysics techniques. It needs more depth in some topics but it is a good book to start.

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