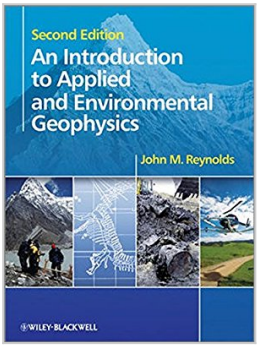

An Introduction to Applied and Environmental Geophysics

By John M. Reynolds

An Introduction to Applied and Environmental Geophysics By John M. Reynolds

An Introduction to Applied and Environmental Geophysics, 2nd Edition, describes the rapidly developing field of near-surface geophysics. The book covers a range of applications including mineral, hydrocarbon and groundwater exploration, and emphasises the use of geophysics in civil engineering and in environmental investigations. Following on from the international popularity of the first edition, this new, revised, and much expanded edition contains additional case histories, and descriptions of geophysical techniques not previously included in such textbooks.

The level of mathematics and physics is deliberately kept to a minimum but is described qualitatively within the text. Relevant mathematical expressions are separated into boxes to supplement the text. The book is profusely illustrated with many figures, photographs and line drawings, many never previously published. Key source literature is provided in an extensive reference section; a list of web addresses for key organisations is also given in an appendix as a valuable additional resource.

- Covers new techniques such as Magnetic Resonance Sounding, Controlled-Source EM, shear-wave seismic refraction, and airborne gravity and EM techniques
- Now includes radioactivity surveying and more discussions of down-hole geophysical methods; hydrographic and Sub-Bottom Profiling surveying; and UneXploded Ordnance detection
- Expanded to include more forensic, archaeological, glaciological, agricultural and bio-geophysical applications
- Includes more information on physio-chemical properties of geological, engineering and environmental materials
- Takes a fully global approach
- Companion website with additional resources available at www.wiley.com/go/reynolds/introduction2e
- Accessible core textbook for undergraduates as well as an ideal reference for industry professionals

The second edition is ideal for students wanting a broad introduction to the

subject and is also designed for practising civil and geotechnical engineers, geologists, archaeologists and environmental scientists who need an overview of modern geophysical methods relevant to their discipline. While the first edition was the first textbook to provide such a comprehensive coverage of environmental geophysics, the second edition is even more far ranging in terms of techniques, applications and case histories.

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- 712 pages

Editorial Review

Review
"A course using it will provide as much geophysics as many want or need, he says, but can also establish a foundation for more advanced courses. It discusses some topics rarely covered in introductory texts, such as geophysical survey design and line optimization techniques, image processing of potential field data, recent developments in high-resolution seismic reflection profiling, and electrical resistivity sub-surface imaging." (Book News, 1 August 2011)

From the Publisher
This book represents the first introductory text to describe the developing field of environmental geophysics. A significant portion of the material is new, as well as case histories which have never been published before. The geographical basis of the case histories is worldwide, with examples originating from Australia to North America, from Arctic Canada to the Antarctic, from Europe to China. The level of mathematics and physics is kept to a minimum but is described qualitatively within the text. Particular attention is paid to geophysical survey design and line optimization techniques. The book also covers the rapidly developing geophysical field techniques and consequent computer-based data processing problems.

From the Back Cover
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Users Review

From reader reviews:

James Bardsley:

An Introduction to Applied and Environmental Geophysics can be one of your basic books that are good idea. We all recommend that straight away because this publication has good vocabulary that could increase your knowledge in vocab, easy to understand, bit entertaining but delivering the information. The article author giving his/her effort to set every word into pleasure arrangement in writing An Introduction to Applied and Environmental Geophysics although doesn't forget the main place, giving the reader the hottest along with based confirm resource data that maybe you can be one of it. This great information may drawn you into completely new stage of crucial imagining.

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