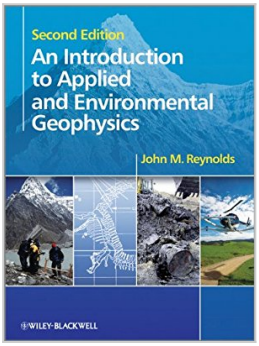


# An Introduction to Applied and Environmental Geophysics

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

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## 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
An Introduction to Applied and Environmental Geophysics John M. Reynolds Reynolds Geo-Sciences Ltd, UK An Introduction to Applied and Environmental Geophysics represents the first introductory text to describe the developing field of environmental geophysics. A significant proportion of the material has never before been featured in a book of this type; particularly the case histories, some of which have never been published. The geographical basis of the case histories is worldwide, with examples originating from Australia to North America, Arctic Canada to the Antarctic, and from Europe to China. Some of the new material includes chapters on detailed survey design, Ground Penetrating Radar, electro-magnetic methods in environmental applications, electrical Sub-Surface Imaging (2-D tomography), Spectral Induced Polarisation, and high resolution engineering reflection seismology. The range of applications covered includes mineral and hydrocarbon exploration, but the greatest emphasis is on the use of geophysics in civil engineering, and in environmental and groundwater investigations. 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 and the book is profusely illustrated with many figures and line drawings. Ideal for students wanting a broad introduction to the subject, the book is also designed for practising civil engineers, geologists, archaeologists and environmental scientists who need an overview of modern geophysical methods relevant to their discipline. This book is the first to provide such a comprehensive coverage of environmental geophysics.

## Users Review

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**Jodi Saldana:**

This An Introduction to Applied and Environmental Geophysics book is not really ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book is information inside this publication incredible fresh, you will get data which is getting deeper anyone read a lot of information you will get. This An Introduction to Applied and Environmental Geophysics without we know teach the one who reading it become critical in imagining and analyzing. Don't end up being worry An Introduction to Applied and Environmental Geophysics can bring if you are and not make your bag space or bookshelves' grow to be full because you can have it within your lovely laptop even cellphone. This An Introduction to Applied and Environmental Geophysics having good arrangement in word along with layout, so you will not really feel uninterested in reading.

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**Patricia Jones:**

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