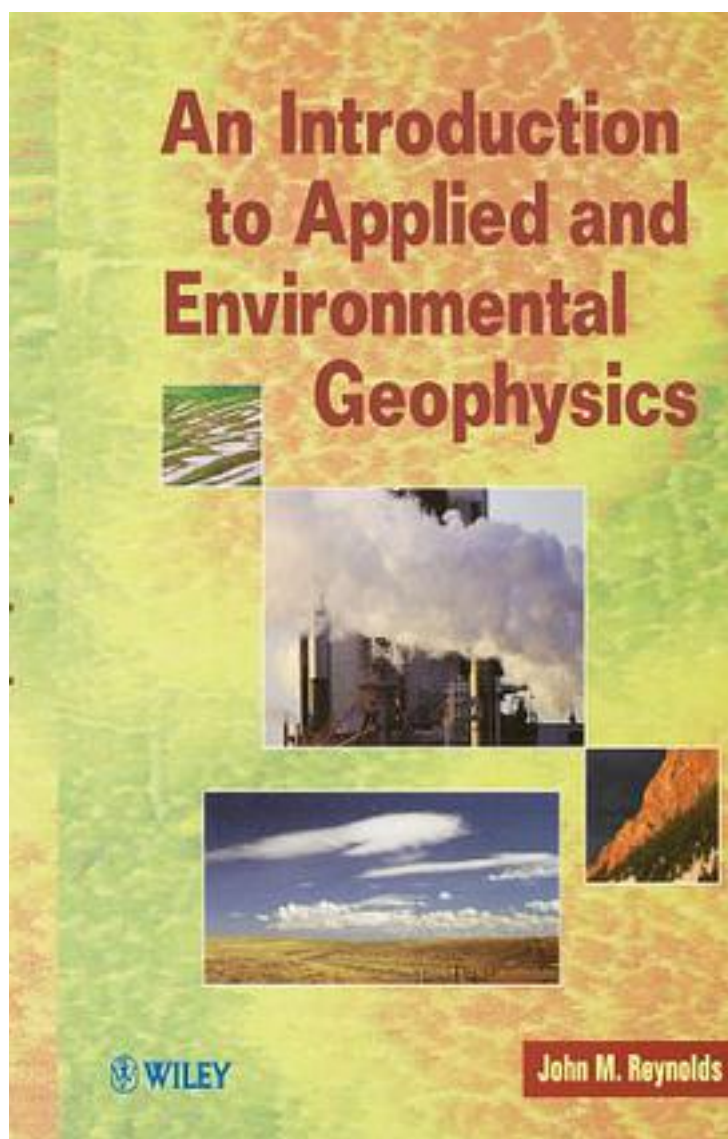


# An Introduction to Applied and Environmental Geophysics



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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.

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