

The Earth's Magnetism: An Introduction for Geologists

By Roberto Lanza, Antonio Meloni

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Initially, this book reviews the general characteristics of the Earth’s magnetic field and the magnetic properties of minerals, and then proceeds to introduce the multifold applications of geomagnetism in earth sciences. The authors analyze the contribution of geomagnetism both in more general geological fields, such as tectonics and geodynamics, and in applied ones, such as prospecting and pollution. Primarily, the book is aimed at undergraduate geology or geophysics students. It is geared to provide them with a general overview of geomagnetism, allowing them to understand what contributions this branch of science can offer in the more special sectors of earth sciences. Graduate students and geology researchers will also benefit from it, as it enables them to gain a clear and concise image of the techniques which can be applied in their areas of specialization.

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Review

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"The book stand apart from other books about Earth’s magnetism because of the wide range of topics covered … . The text is augmented with numerous case studies that make the reading more appealing. Illustrations are typically fine and mostly self-explanatory, and they help the reader to comprehend and assimilate some of the otherwise tricky concepts covered in the book. This book definitely deserves pride of place among geomagnetism and paleomagnetism textbooks." (Josep M. Pares, Journal of Geology, Vol. 116, 2008)

"The book presents fundamental concepts and numerous applications of geomagnetism in many fields of geology in a well balanced manner … . Editorial work has been done very well; the book is handy, all figures are high quality and the text is legible. I found the book very useful for graduate students and their teachers … . It will also be a very good guide for geologists and geophysicists seeking an accessible and affordable compendium on paleomagnetism and its application in geology." (Marek Lewandowski, Pure and Applied Geophysics, Vol. 165, 2008)

"The Earth’s Magnetism: An Introduction for Geologists … provide a holistic approach to the subject and a general overview of many of the fundamental subjects that compose geomagnetism and its application to geology. … The inclusion of a chapter on environmental magnetism is one of the strengths of the book, as this subject is usually not covered by other books on geomagnetism and paleomagnetism. … useful reference for the average Earth scientist. … suitable for a middle to upper division course in geomagnetism." (Stephen S. Harlan, EOS, Vol. 88 (10), March, 2007)

From the Back Cover

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