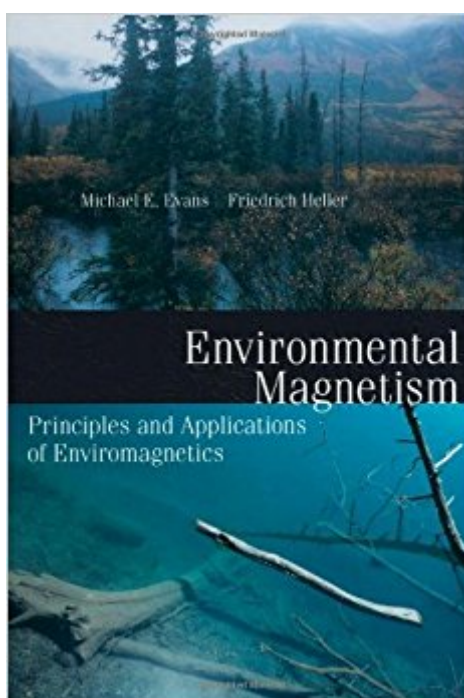


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Environmental Magnetism, Volume 86: Principles And Applications Of Enviromagnetics (International Geophysics)



Synopsis

Magnetism is important in environmental studies for several reasons, the two most fundamental being that most substances exhibit some form of magnetic behavior, and that iron is one of the most common elements in the Earth's crust. Once sequestered in a suitable material, magnetic particles constitute a natural archive of conditions existing in former times. Magnetism provides a tracer of paleo-climatic and paleo-environmental conditions and processes. Environmental Magnetism details the occurrence and uses of magnetic materials in the natural environment. The first half of the volume describes the basic principles. The second half discusses the applications of magnetic measurements in various environmental settings on land, in lakes, in the ocean, and even various biological organisms. * Material is broadly applicable to environmental studies* Case histories illustrate key points* Extensive bibliography makes further research quick and easy

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"Evans and Heller's latest text book constitutes a welcome update to the 1986 monograph: it is also the first major work on the subject in focus to be co-authored by people based on opposite sides of the Atlantic, which has resulted in a well-balanced, unbiased variety of examples and an extensive reference list." -Ian F. Snowball, Department of Geology, Lund University, in JOURNAL OF QUATERNARY SCIENCE, 2004" For those active in environmental magnetic research, this book is a 'must-buy'. The authors should be congratulated for providing an excellent subject review in such

an accessible, concise and well-presented fashion"--John Walden, University of St Andrews"Would make an excellent purchase for a departmental Library"--John Walden, University of St Andrews"The book provides a solid basis on which to construct an introductory course in the unfamiliar area of environmental magnetism...provides a rich source for selected material that may be used in other related courses. The book is a comprehensive collection of examples where the measurable properties of the magnetic minerals have been used to answer current questions."-Ronald Green, Fitzroy, Adelaide, SA, Australia for The Leading Edge (May 2004)

Details the occurrence and uses of magnetic materials in the natural environment.

When I browsed the Academic Press title, "Environmental Magnetism: Principles and Applications of Enviromagnetics", at the AGU meeting in San Francisco this past December, I thought the term 'enviromagnetics' was presumptuous -- just like a Aussie-Canadian (Evans) to spam new techno-babble. That was before I put my credit card down (at a 20% show discount!) and cracked it open at my hotel. Well, yes, I have been enlightened -- Ted Evans and Friedrich Heller are justified in coining the term ENVIROMAGNETICS -- this book delivers and how: It truly is an indispensable reference work for undergraduates, researchers, lecturers, and professionals in geomagnetism, geology, pedology, archaeology, oceanography, climatology, and earth system science. In a macadamia shell, their writing is clear and accessible. Thanks guys, with your talent you should write a general geophysics textbook.

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