



# Rock Magnetism: Fundamentals and Frontiers (Cambridge Studies in Magnetism)

By David J. Dunlop, Özden Özdemir

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Rock Magnetism, first published in 1997, is a comprehensive treatment of fine particle magnetism and the magnetic properties of rocks. Starting from atomic magnetism and magnetostatic principles, the authors explain why domains and micromagnetic structures form in ferromagnetic crystals and how these lead to magnetic memory in the form of thermal, chemical and other remanent magnetizations. The phenomenal stability of these magnetizations, providing a record of plate tectonic motions over millions of years, is explained by thermal activation theory. One chapter is devoted to practical tests of domain state and paleomagnetic stability; another deals with pseudo-single-domain magnetism. The final four chapters place magnetism in the context of igneous, sedimentary, metamorphic, and extraterrestrial rocks. This book will be of great value to graduate students and researchers in geophysics and geology, particularly in paleomagnetism and rock magnetism, as well as physicists and electrical engineers interested in fine-particle magnetism and magnetic recording.

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#### Review

"...successfully combine[s] rigorous theoretical treatment of the fundamentals of rock magnetism with a necessarily more descriptive discussion of frontier areas in which all is not yet clear...an excellent, comprehensive text written by prominent researchers in rock magnetism...surely an invaluable source for all workers in the field for a long time. The book is not only well written, but well produced, with fine diagrams and layout." *Physics Today*

"Whether the reader is a frequent or casual user of the techniques of paleomagnetism or a theoretical geomagnetist wondering about the quality of paleomagnetic field intensity records, Dunlop and Özdemir's book would be a valuable and comprehensive resource." *Science*

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