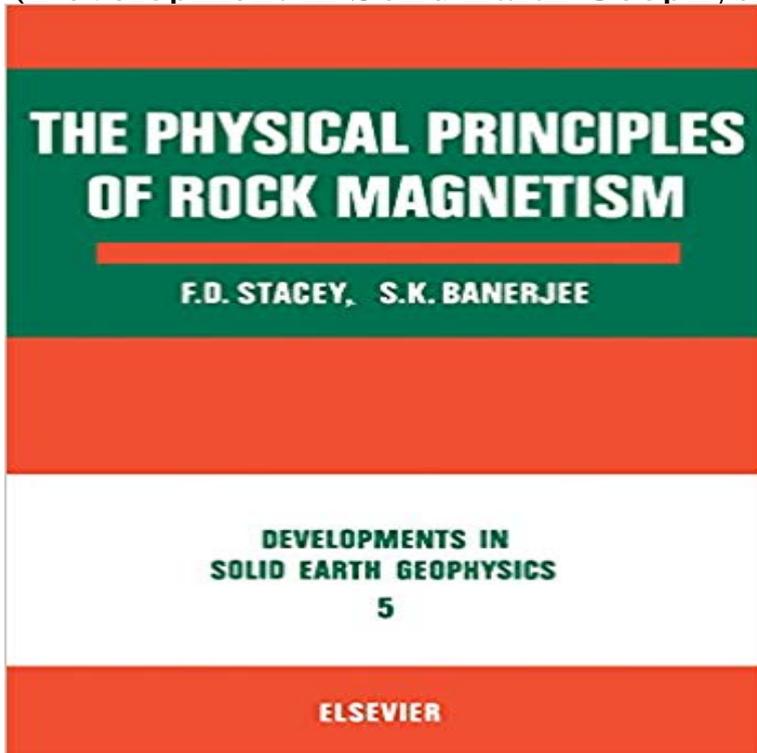


THE PHYSICAL PRINCIPLES OF ROCK MAGNETISM (Development in Solid Earth Geophysics)



Developments in Solid Earth Geophysics 5: The Physical Principles of Rock Magnetism explores the physical principles of rock magnetism, with emphasis on the properties of finely divided magnetic materials. It discusses the origin and stability of rock magnetizations, the role of remanent magnetism in interpreting magnetic surveys, magnetic anisotropy as an indicator of rock fabric, and the relationship between piezomagnetic changes and seismic activity. Organized into 13 chapters, this volume discusses the properties of solids, magnetite and hematite grains, and rocks with magnetite grains. It also explains various theories and equations in studying rock magnetism. Different types of magnetization are discussed, including their occurrence, significance, and effects. Some of the types include depositional and chemical remanent and thermoremanent magnetization. In addition, this book explains the thermal activation and Piezomagnetic effects, as well as the reversals of remanent magnetism. This reference contains appendices with tables of relevant functions, such as Langevin Function. This book is a valuable source of information for physicists and geologists.

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