

# Introduction To The Physics Of Rocks

## Hardcover

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finding viable solutions to many of the problems threatening our environment hinges on understanding the rocks below the earth's surface for those evaluating the relative hazards of radioactive waste sites investigating energy resources such as oil gas and hydrothermal energy studying the behavior of natural hazards like earthquakes and volcanoes or charting the flow of groundwater through the earth this book will be indispensable until now there has been no book that treats the subject of the nature and behavior of rocks in a comprehensive yet accessible manner yves guéguen and victor palciauskas first discuss the physical properties of rocks proceeding by chapter through mechanical fluid flow acoustical electrical dielectric thermal and magnetic properties then they provide the theoretical framework for achieving reliable data and making reasonable inferences about the aggregate system within the earth introduction to the physics of rocks covers the important and most current theoretical approaches to the physics of inhomogeneous media including theoretical bounds on properties various effective medium theories percolation and fractals this book will be of use to students and researchers in civil petroleum and environmental engineering and to geologists geophysicists hydrologists and other earth scientists interested in the physics of the earth its clear presentation with problems at the end of each chapter and selective references will make it ideal for advanced undergraduate or graduate level courses

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