



Physical Properties of Rocks, Vol. 18

By Juergen H. Schön

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The interpretation of geophysical data in exploration geophysics, well logging, engineering, mining and environmental geophysics requires knowledge of the physical properties of the rocks and their correlation. Physical properties are a "key" for combined interpretation techniques. The study of rock physics provides an interdisciplinary treatment of physical properties, whether related to geophysical, geotechnical, hydrological or geological methodology.

The book is a comprehensive and concise systematic presentation of the physical properties of rocks. It is focussed on the problems of applied geophysics with respect to exploration and the expanding field of applications in engineering and mining geophysics, geotechnics, hydrology and environmental problems, and the properties under the conditions of the upper earth crust. This volume contains theoretical and experimental results relating to the main geophysical properties – density, magnetic properties, natural radioactivity, elastic and anelastic properties, electrical and thermal. It also presents the correlation between the individual properties as a basis of modern interpretation methods, including relationships between geophysical and geotechnical properties.

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Editorial Review

Review

"...the collective nature of the work makes it a useful reference to have around, especially given the re-emergence of methods such as electromagnetics for oil field applications over a range of scales of measurement. The treatment is fully pertinent to geophysical research, where the integration of diverse methods goes is widely practised. It is also relevant to aspects of (shallow) engineering geophysics. I am pleased to commend it to persons working in all three areas, as a highly useful and informative reference work."

-Paul F. Worthington, in PETROLEUM GEOSCIENCE, 2005

..a comprehensive and concise systematic presentation of the physical properties of rocks.

Petroleum Abstracts, 2005

D.C. Bartel

..can be a useful reference to those involved in estimating rock properties from seismic and well logging measurements, as well as others needing a reference to relate different physical properties.

The Leading Edge, 2005

About the Author

Jürgen H. Schön is a consulting petrophysicist and Honorary Professor at Montanuniversität Leoben. Schön was educated at Bergakademie Freiberg (Mining Institute of Freiberg), Germany, where in 1962 he graduated with a Diploma in geophysics; in 1967 he received his Doctor of Natural Science. In his career, Schön has held a variety of academic positions: at the Bergakademie Freiberg he was Professor and Head of the Geophysics Department (1987-1991). In 1991, he moved to the Institute of Applied Geophysics, Joanneum Research, in Leoben, Austria; where, from 2000 to 2004, he was the science manager of the geophysical institute. In 1993, he was a visiting Professor at the Colorado School of Mines. In 1999 he became Honorary Professor at the Montanuniversität Leoben. In his academic positions he was also a thesis supervisor for students studying formation evaluation. Since 1999 he has expanded his teaching beyond university and has taught training courses (Petrophysics, Formation Evaluation) for industry.

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