

Mechanics of Crustal Rocks

F.K. Lehner: A Review of the Linear Theory of Anisotropic Poroelastic Solids. - J.W. Rudnicki: Eshelby's Technique for Analyzing Inhomogeneities in Geomechanics. - Y. Gueguen, M. Kachanov: Effective Elastic Properties of Cracked and Porous Rocks - an Overview. - J.L. Raphanel: 3D Morphology Evolution of Solid-Fluid Interfaces by Pressure Solution. - Y.M. Leroy: An Introduction to the Finite-Element Method for Linear and Non-linear Static Problems. The mechanical behaviour of the earth's upper crust enters into a great variety of questions in different areas of the geological and geophysical sciences as well as in the more applied geotechnical disciplines. This volume presents a selection of papers from a CISM course in Udine on this topic. While each of these chapters will make for a useful contribution in its own right, the present bundle also illustrates, by way of examples, the variety of theoretical concepts and tools that are currently brought to bear on earth deformation studies, ranging from reviews of poroelastic field theory to micro-mechanical and homogenization studies, chemomechanics and interfacial stability theory of soluble solids under stress, and finally to an introduction to the finite element method.

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106,99 €
99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783709111161
Medium: Buch
ISBN: 978-3-7091-1116-1
Verlag: Springer Vienna
Erscheinungstermin: 22.11.2013
Sprache(n): Englisch
Auflage: 2012
Serie: CISM International Centre for Mechanical Sciences
Produktform: Kartoniert
Gewicht: 382 g
Seiten: 240
Format (B x H): 155 x 235 mm

