
Description: Mechanics of Fluid Saturated Rocks presents a current and comprehensive report on this emerging field that bridges the areas of geology and mechanics. It is of direct interest to a wide spectrum of earth scientists and engineers who are concerned with upper-crust mechanics and fluid movements, the most important fluids being oil and water.

This authoritative book is the result of a collaborative effort between scientists in academic institutions and industry. It examines important issues such as subsidence, geological fault formation, earthquake faulting, hydraulic fracturing, transport of fluids, and natural and direct applications.

Mechanics of Fluid Saturated Rocks provides a unique interdisciplinary viewpoint, as well as case studies, conclusions, and recommendations for further research.

Covers the physical, chemical, and mechanical analysis of porous saturated rock deformation on both large and small scales
Discusses the latest developments of importance to engineers and geologists
Examines natural and direct applications
Incorporates numerous equations and illustrations including an online image gallery: books.elsevier.com/companions/0123053552
Includes extensive bibliographies for each chapter

Contents:
- Foreword
- Preface
- Fundamentals of Poromechanics
- Mechanical Compaction
- Compaction by Intergranular Pressure Solution
- Damage and Rock Physical Properties
- Localization: Shear Bands and Compaction Bands
- Fluid Transport in Deforming Rocks
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