



Porous Rock Fracture Mechanics: Hydraulic Fracturing, Drilling and Structural Engineering

Amir Shojaei, Jianfu Shao

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Porous Rock Failure Mechanics: Hydraulic Fracturing, Drilling and Structural Engineering focuses on the fracture mechanics of porous rocks and modern simulation techniques for progressive quasi-static and dynamic fractures. The topics covered in this volume include a wide range of academic and industrial applications, including petroleum, mining, and civil engineering.

Chapters focus on advanced topics in the field of rock's fracture mechanics and address theoretical concepts, experimental characterization, numerical simulation techniques, and their applications as appropriate. Each chapter reflects the current state-of-the-art in terms of the modern use of fracture simulation in industrial and academic sectors. Some of the major contributions in this volume include, but are not limited to: anisotropic elasto-plastic deformation mechanisms in fluid saturated porous rocks, dynamics of fluids transport in fractured rocks and simulation techniques, fracture mechanics and simulation techniques in porous rocks, fluid-structure interaction in hydraulic driven fractures, advanced numerical techniques for simulation of progressive fracture, including multiscale modeling, and micromechanical approaches for porous rocks, and quasi-static versus dynamic fractures in porous rocks.

This book will serve as an important resource for petroleum, geomechanics, drilling and structural engineers, R&D managers in industry and academia.

- Includes a strong editorial team and quality experts as chapter authors
- Presents topics identified for individual chapters are current, relevant, and interesting
- Focuses on advanced topics, such as fluid coupled fractures, rock's continuum damage mechanics, and multiscale modeling
- Provides a 'one-stop' advanced-level reference for a graduate course focusing on rock's mechanics

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