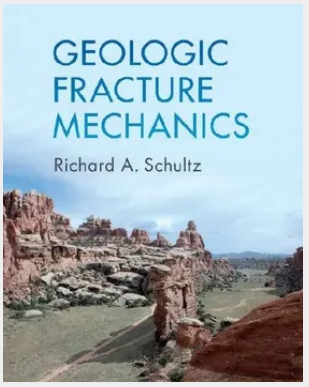
Schultz

Geologic Fracture Mechanics

This lively introduction to geologic fracture mechanics provides a consistent treatment of all common geologic structural discontinuities. It explores the formation, growth and interpretation of fractures and deformation bands, from theoretical, field and lab-based perspectives, bridging the gap between a general textbook treatment and the more advanced research literature. It allows the reader to acquire basic tools to interpret discontinuity origins, geometries, patterns and implications using many of the leading and contemporary concepts known to specialists in the field. Problem sets are provided at the end of each chapter, and worked examples are included within each chapter to illustrate topics and enable self-study. With all common geologic structures including joints, hydrofractures, faults, stylolites and deformation bands being discussed from a fresh perspective, it will be a useful reference for advanced students, researchers and industry practitioners interested in structural geology, neotectonics, rock mechanics, planetary geology, and reservoir geomechanics.

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