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The fractures dominate the rock mass geometry, deformation modulus, strength, failure behaviour, permeability, and even the local magnitudes and directions of the in situ stress field.

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Clearly, an understanding of the presence and mechanics of the discontinuities, both singly and in the rock mass context, is therefore of paramount importance to civil, mining and petroleum engineers.

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important distinction between man-made materials and the natural material rock is that rock contains fractures, of many kinds on many scales; and because the fractures - of whatever kin- represent breaks in the mechanical continuum, they are collectively termed 'discontinuities' .

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for Rock Engineering
Stephen D. Priest
(auth.) Engineers
wishing to build
structures on or in rock
use the discipline
known as rock

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mechanics. This discipline emerged as a subject in its own right about thirty five years ago, and has developed rapidly ever since.

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Technology &
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pages. 2 Reviews. All
rock masses contain
bedding...

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Analysis for rock engineering

Discontinuities are major geological features in a rock mass. Discontinuity spacing is one of the important parameters in describing the quality of a complete rock mass.

Discontinuity surveys are...

(PDF)

Characteristics of Discontinuity

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**Spacing in a Rock
Mass**
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Advanced
undergraduates
studying civil, mining
and geological
engineering and
postgraduates
pursuing coursework in
rock mechanics, soil
mechanics and
engineering geology
should find this a
valuable text. It should
also serve as a
reference tool for
practising engineers

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and geologists faced with the task of collecting, analyzing and applying discontinuity data for the analysis and design of surface and underground excavations in rock associated with a wide range of mining and civil ...

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Rock mass, which can be defined as blocks of rock material separated by discontinuities, such as joints, faults, bedding planes, and so on (Bieniawski, 1989), is one of the most important concepts in rock engineering. The discontinuity properties (i.e., spacing, persistence, roughness, infilling, weathering and presence of water)

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have a capital importance on the geomechanical behavior of the rock mass (Bieniawski, 1973, Priest and Hudson, 1976), and are usually characterized through ...

Discontinuity spacing analysis in rock masses using 3D ...

It should also serve as a reference tool for practising engineers

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and geologists faced with the task of collecting, analyzing and applying discontinuity data for the analysis and design of surface and underground excavations in rock associated with a wide range of mining and civil engineering projects.

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Discontinuity Analysis
for Rock Engineering.
[Stephen D Priest] --
This book aims to
bridge the gap
between the
descriptive methods of
the geologist and the
analytical methods of
the rock mechanics
engineer as applied to
discontinuity
characteristics.

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An understanding of the mechanical influence of these discontinuities is essential to all rock engineers. Most of the world is made of rock, and most of the rock near the surface is fractured.

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The present work analyses the extraction of the discontinuity sets of a rock slope using 3D point clouds, obtained by means of a TLS and SfM techniques, where the GCP are extracted from the TLS dataset by means of printed targets. The use of GCP extracted from targets by means of TLS is currently being applied in other researches [16].

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Identification of Rock Slope Discontinuity Sets from Laser ...

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Persistence Persistence

refers to the areal extent or size of a discontinuity plane within a plane. Clearly, the persistence will have a major influence on the shear strength developed in the plane of the discontinuity, where the intact rock

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segments are referred to as 'rock bridges'.

rock bridge increasing persistence

Lecture 4: Kinematic Analysis (Wedge Failure)

RocData - Rock, Soil and Discontinuity Strength Analysis by Rocscience. The lack of data input on soil and rock mass properties can be a major obstacle when you're running your

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geotechnical analyses.
RocData helps to
remedy this situation
by providin...

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