

Rock Mass Properties Rocscience

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Rock Mass Properties Rocscience

Rock mass properties. Introduction. Reliable estimates of the strength and deformation characteristics of rock masses are required for almost any form of analysis used for the design of slopes, foundations and underground excavations. Hoek and Brown (1980a, 1980b) proposed a method for obtaining estimates of the strength of jointed rock masses, based upon an assessment of the interlocking of rock blocks and the condition of the surfaces between these blocks.

Rock mass properties - Rocscience Inc.

The strength of a jointed rock mass depends on the properties of the intact rock pieces and also upon the freedom of these pieces to slide and rotate under different stress conditions. This freedom is controlled by the geometrical shape of the intact rock pieces as well as the condition of the surfaces separating the pieces.

Rock mass properties for underground mines - Rocscience Inc.

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Rock mass properties for surface mines - Rocscience Inc.

characteristics of a rock mass to provide initial estimates of support requirements, and to provide estimates of the strength and deformation properties of the rock mass. It is important to understand the limitations of rock mass classification schemes

1 Rock mass classification - Rocscience Inc.

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Practical Rock Engineering - Rocscience Inc.

RocData. The lack of data input on soil and rock mass properties can be a major obstacle when you're running your geotechnical analyses. RocData helps to remedy this situation by providing analysis tools and data to help you determine rock and soil material properties. Free Trial.

RocData | Your Toolkit For Analyzing Rock and Soil Strength

Rock Mass Properties Rocscience jointed rock masses, three 'properties' of the rock mass have to be estimated. These are: uniaxial compressive strength c_i of the intact rock pieces, value of the Hoek-Brown constant m_i for these intact rock pieces, and value of the Geological Strength Index GSI for the rock mass. Intact rock properties Rock mass properties - Rocscience Inc.

Rock Mass Properties Rocscience - bitofnews.com

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This study deals with the rock mass properties and their suitability as rock foundation for Beni Haroun dam, the largest dam in Algeria. The dam is located in the north-eastern part of Algeria on Wadi El-Kebeir, approximately 40 km from its outfall in the Mediterranean Sea. The dam is a roller-compacted concrete type with a height of 120 m, a ...

Rock mass properties and their suitability as a foundation ...

Rock masses consist of intact rock pieces separated by tightly interlocking discontinuities. This lecture deals with the data collection and in situ testing ...

Rock Mass Properties - YouTube

Rock mass properties $\tau = c + \sigma \tan \phi$ where τ is the rock mass strength, defined by equation 21, σ is the unit weight of the rock mass and H is the depth of the tunnel below surface.

Rock mass properties - SlideShare

Generally, rock masses in Quangninh are characterized by joints/beddings between rock layers. Unlike intact rock, the behavior of stratified rock masses surrounding the tunnels depends on the properties of both the intact rock and the joints/beddings between rock layers.

Behavior of noncircular tunnels excavated in stratified ...

The strength and deformation properties of intact rock, derived from laboratory tests, are reduced based on the properties of discontinuities in the rock mass. The nonlinear Hoek-Brown criterion for rock masses is widely accepted and has been applied in many projects around the world.

The Hoek-Brown failure criterion and GSI - 2018 edition ...

RocLab provides a simple and intuitive implementation of the Hoek-Brown failure criterion, allowing users to easily obtain reliable estimates of rock mass properties and to visualize the effects of changing rock mass parameters on the failure envelopes.

RocLab (free) download Windows version

3. Classification. The rock mass quality (Q) (Barton et al., 1974, Grimstad and Barton, 1993, Barton and Grimstad, 2014a) and the GSI (Hoek, 1994, Hoek and Brown, 1997, Marinos and Hoek, 2000) are discussed in this section specifically in relation to estimating rock mass properties. The interested reader is referred elsewhere for comparisons of the numerous rock mass classification systems that ...

Revisiting rock classification to estimate rock mass ...

properties to observations of the rock mass characteristics. Among these, the Geological Strength Index (GSI) coupled with the Hoek-Brown failure criterion has become one of the industry standards for estimating rock mass properties on international tunnelling projects.

Review: GSI and Hoek Brown Procedure

The stability of an underground tunnel is affected by several factors, such as rock mass properties, in situ stresses, geological conditions, blasting-induced dynamic loading, and support systems. Bolts strengthen the rock mass by restricting the distortion in the rockmass.

Effect of rock bolt support mechanism on tunnel ...

rock mass characterization that has been developed in engineering rock mechanics to meet the need for reliable input data related to rock mass properties required as input for numerical analysis or closed-form solutions for design-ing tunnels, slopes, or foundations in rocks. The geological character of the rock material, together with the visual