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provides construction engineers, construction managers and mining engineers with the tools and methods to gather geotechnical data, either from rock cuts, drifts or core, and process the information for subsequent analysis.

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### **Classification | ScienceDirect**

Encompassing nearly all aspects of rock mass classifications in detail, Civil

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provides construction engineers and managers with extensive practical knowledge which is time-tested in the projects in Himalaya and other parts of the world in complex geological conditions.

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The empirically based rock mass

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classification systems draw on a large database generated from geotechnical engineering projects and are widely used in underground tunnelling and civil engineering works in other industries.

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mass classifications in detail, Civil Engineering Rock Mass Classification: Tunnelling, Foundations and Landsides provides construction engineers and managers with extensive practical knowledge which is time-tested in the projects in Himalaya and other parts of the world in complex geological conditions.

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Rock mass classifications, which thus

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form the backbone of the empirical design approach, are widely employed in rock tunneling and most of the tunnels constructed at present in the United States make use of some classification system.

## **TUNNEL DESIGN BY ROCK MASS CLASSIFICATIONS**

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Engineering rock mass classification  
Rock mass classification schemes have been developing for over 100 years since Ritter (1879) attempted to formalise an empirical approach to tunnel design, in particular for determining support requirements.

## **1 Rock mass classification -**

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Rock mass classification systems are used for various engineering design and stability analysis. These are based on empirical relations between rock mass parameters and engineering applications, such as tunnels, slopes, foundations, and excavatability.



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of Technology Roorkee-247667(India) R.

K. Goel Scientist G Central Institute

of Mining and Fuel Research Regional

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This is the first authoritative reference on rock mass classification, consolidating into one handy source information once widely scattered throughout the literature. It includes new, previously unpublished material and case histories, presents the

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Foundations And Principles  
fundamental concepts of classification schemes, and critically appraises their practical application in industrial projects such as tunneling and ...

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Workshop on Rock Mass Classification in  
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Health and Human Services, CDC/NIOSH  
Office of Mine Safety and Health  
Research Mark , Christopher , Pakalnis ,  
Rimas , Tuchman , Robert J. (Eds.)

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ROCK ENGINEERING ECG533 Rock Mass  
Classification ... - Amount of water

inflow (in gallons per minute per 1000  
feet of tunnel). 4. Rock Structure Rating

(RSR) 9 BASIC ROCK TYPE GEOLOGIC

STRUCTURE Hard Medium Soft

Decomposed Massive Slightly Folded or

Faulted Moderately Folded or

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**ROCK ENGINEERING -**  
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GSI utilizes 2 main parameters, the rock mass structure and the discontinuity surface quality. List of References.

Barton N., Lien R. and Lunde J., (1974).

Engineering classification of rock masses for the design of tunnel support. Rock Mechanics, Vol. 6, No. 4, pp. 189-236.

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Bieniawski, Z.T. (1973). Engineering  
classification of jointed rock ...

## **Rock Mass Characterization | Geoengineer.org**

For the genetic method, see Q-system (genetics). The Q-system for rock mass classification is developed by Barton, Lien, and Lunde. It expresses the quality



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of the rock mass in the so-called Q-value, on which are based design and support recommendations for underground excavations. The Q-value is determined with

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