



# Introduction to Rock Mass Classification:

- ❖ Rock mass classification schemes have been developed to assist in (primarily) the collection of rock into common or similar groups.
- ❖ The first truly organized system was proposed by Dr. Karl Terzaghi (1946) and has been followed by a number of schemes proposed by others.
- ❖ Terzaghi's system was mainly qualitative and others are more quantitative in nature.
- ❖ The following subsections explain three systems and show how they can be used to begin to develop and apply numerical ratings to the selection of rock tunnel support and lining.
- ❖ This section discusses various rock mass classification systems mainly used for rock tunnel design and construction projects.

# Engineering Rock Mass Classification Engineering Rock Mass Classification

**Z. T. Bieniawski**



## **Engineering Rock Mass Classification Engineering Rock Mass Classification:**

*Engineering Rock Mass Classifications* Z. T. Bieniawski, 1989-08-24 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into one handy source information once widely scattered throughout the literature It includes new previously unpublished material and case histories presents the fundamental concepts of classification schemes and critically appraises their practical application in industrial projects such as tunneling and mining

*Engineering Rock Mass Classification* R K Goel, Bhawani Singh, 2011-08-09 Rock mass classification methods are commonly used at the preliminary design stages of a construction project when there is very little information It forms the bases for design and estimation of the required amount and type of rock support and groundwater control measures Encompassing nearly all aspects of rock 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 Rock mass classification is an essential element of feasibility studies for any near surface construction project prior to any excavation or disturbances made to earth Written by an author team with over 50 years of experience in some of the most difficult mining regions of the world Civil Engineering Rock Mass Classification Tunnelling Foundations and Landsides 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 The goal is to use effective mapping techniques to obtain data can be used as input for any of the established rock classification systems The book covers all of the commonly used classification methods including Barton's Q and Q systems Bieniawski's RMR Laubscher's MRMR and Hoek's and GSI systems With this book in hand engineers will be able to gather geotechnical data either from rock cuts drifts or core and process the information for subsequent analysis Rich with international case studies and worked out equations the focus of the book is on the practical gathering information for purposes of analysis and design Identify the most significant parameters influencing the behaviour of a rock mass Divide a particular rock mass formulation into groups of similar behaviour rock mass classes of varying quality Provide a basis of understanding the characteristics of each rock mass class Relate the experience of rock conditions at one site to the conditions and experience encountered at others Derive quantitative data and guidelines for engineering design Provide common basis for communication between engineers and geologists

Practical Handbook of Rock Mass Classification Systems and Modes of Ground Failure Andy Afrouz, 1992-06-10 Practical Handbook of Rock Mass Classification Systems and Modes of Ground Failure is a comprehensive yet concise guide to 16 of the most important rock classification systems and their failure modes The book discusses these systems in relation to the design of excavations and ground reinforcement support under passive active static and dynamic mining conditions This includes rock testing assessment surface and underground site investigation and any practical activity that deals with the physical and mechanical properties

of rocks The book is an excellent professional reference for geoscientists technicians and geological engineers doing research and consulting in mining geological civil and petroleum resource fields *Engineering Rock Mass Classification* , **Rock Mass Classification** B. Singh,R K Goel,1999-05-05 Rock Mass Classifications A Practical Approach in Civil Engineering was written in response to the many unanswered questions regarding this subject Questions such as Is Classification reasonably reliable Can it be successful in crisis management of geohazards Can a single Classification system be general for all rock structures Is Classification a scientific approach Laborious field research was undertaken in the Himalayan mountains by a team of scientists from the Central Mining Research Institute CMRI University of Roorkee UOR Central Soil and Material Research Station CSMRS U P Irrigation Research Institute UPIRI and Norwegian Geotechnical Institute NGI to answer these questions The results obtained from the research work were systematically compiled to produce this book which bears particular relevance to civil mining and petroleum engineers and geologists Endorsements It is a Handbook of Rock Engineering Zhao Jian School of Civil Structural Engineering Nanyang Technological University Singapore I came across your new book Rock Mass Classification absolutely fantastic Subodh K Jain U S A **Rock Classification Systems for Engineering Purposes** Louis Kirkaldie,1988 Support of Underground Excavations in Hard Rock E. Hoek,P.K. Kaiser,W.F. Bawden,2000-01-01 The safe and economical construction of tunnels mines and other subterranean works depends on the correct choice of support systems to ensure that the excavations are stable These support systems should be matched to the characteristics of the rock mass and the excavation techniques adopted Establishing the support requirements designing support systems and installing these correctly are essential elements in safe underground construction This is a comprehensive and practical work which also gives access to user friendly computer programmes which enable the investigation and design of support techniques Details on how to obtain this software are also included in the book **Rock Engineering and Rock Mechanics: Structures in and on Rock Masses** R. Alejano,Áurea Perucho,Claudio Olalla,Rafael Jiménez,2014-05-12 Rock Engineering and Rock Mechanics Structures in and on Rock Masses covers the most important topics and state of the art in the area of rock mechanics with an emphasis on structures in and on rock masses The 255 contributions including 6 keynote lectures from the 2014 ISRM European Rock Mechanics Symposium EUROCK 2014 Vigo Spain 27 29 Ma Engineering Rock Mechanics - 2 Mr. Rohit Manglik,2024-07-26 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Engineering Rock Mechanics* John P Harrison,2001-01-26 Engineering Rock Mechanics Part II Illustrative Worked Examples can be used as an independent book or alternatively it complements an earlier publication called Engineering Rock Mechanics An Introduction to the Principles by the same authors It contains illustrative worked examples of engineering rock mechanics in action as the subject applies to civil mining

petroleum and environmental engineering The book covers the necessary understanding and the key techniques supporting the rock engineering design of structural foundations dams rock slopes wellbores tunnels caverns hydroelectric schemes and mines There is a question and worked answer presentation with the question and answer sets collated into twenty chapters which match the subject matter of the first book

**Engineering Properties of Rocks** Lianyang Zhang, 2016-09-06 More often than not it is difficult or even impossible to obtain directly the specific rock parameters of interest using in situ methods The procedures for measuring most rock properties are also time consuming and expensive Engineering Properties of Rocks Second Edition explores the use of typical values and or empirical correlations of similar rocks to determine the specific parameters needed The book is based on the author s extensive experience and offers a single source of information for the evaluation of rock properties It systematically describes the classification and characterization of intact rock rock discontinuities and rock masses and presents the various indirect methods for estimating the deformability strength and permeability of these components as well as the in situ rock stresses Presents a single source for the correlations on rock properties Saves time and resources invested on in situ testing procedures Fully updated with current literature Expanded coverage of rock types and geographical locations

**Engineering Classification of Rock Masses for the Design of**

**Tunnel Support** N. Barton, 1977 *Geomechanics and Geodynamics of Rock Masses, Volume 1* Vladimir Litvinenko, 2018-05-20 This book is Volume 1 of the EUROCK 2018 proceedings Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

Engineering Classification of Rock Masses for the Design of Tunnel Support Nicholas Barton, Nick Barton, R. Lien, J. Lunde, 1974 **Geomechanics and Geodynamics of Rock Masses** Vladimir Litvinenko, 2018-05-15 Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances

and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

**Volcanic Rocks** Ana Maria Malheiro, Joao Carlos Nunes, 2019-08-22 Environmental issues are high on the public agenda and engineering projects need to take environmental concerns on board Volcanic Rocks contains papers from the ISRM Workshop W2 Ponta Delgada Azores Portugal 14 15 July 2007 and focuses specifically on problems associated with construction activities in areas of volcanic rock Volcanic Rocks highlights novel approaches and solutions to engineering problems in volcanic areas covering a variety of topical themes which include characterization of volcanic formations case studies construction materials earthquake engineering and rock dynamics foundations slope stability and tunnelling

**Geomechanics and Geodynamics of Rock Masses - Volume 2** Vladimir Litvinenko, 2018-05-20 This book is Volume 2 of the EUROCK 2018 proceedings Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22 26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

**Tunnel Design by Rock Mass Classifications** Z. T. Bieniawski, 1979

**Technical Manual for Design and Construction of Road Tunnels--civil Elements**, 2010 The increased use of underground space for transportation systems and the increasing complexity and

constraints of constructing and maintaining above ground transportation infrastructure have prompted the need to develop this technical manual This FHWA manual is intended to be a single source technical manual providing guidelines for planning design construction and rehabilitation of road tunnels and encompasses various types of road tunnels P ix     Rock Mechanics Nagaratnam Sivakugan, Sanjay Kumar Shukla, Braja M. Das, 2013-01-18 Rock mechanics is a multidisciplinary subject combining geology geophysics and engineering and applying the principles of mechanics to study the engineering behavior of the rock mass With wide application a solid grasp of this topic is invaluable to anyone studying or working in civil mining petroleum and geological engineering Rock Mechanics An Introduction presents the fundamental principles of rock mechanics in a clear easy to comprehend manner for readers with little or no background in this field The text includes a brief introduction to geology and covers stereographic projections laboratory testing strength and deformation of rock masses slope stability foundations and more The authors academics who have written several books in geotechnical engineering have used their extensive teaching experience to create this accessible textbook They present complex material in a lucid and simple way with numerical examples to illustrate the concepts providing an introductory book that can be used as a textbook in civil and geological engineering programs and as a general reference book for professional engineers

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