

# ROCK MASS CLASSIFICATION

A Practical Approach  
in Civil Engineering

B. Singh  
R.K. Goel

ELSEVIER

# Rock Mass Classification A Practical Approach In Civil Engineering

**Hasan Tosun**



## **Rock Mass Classification A Practical Approach In Civil Engineering:**

**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 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 **Software for Engineering Control of Landslide and Tunnelling Hazards** Bhawani Singh,R.K. Goel,2002-01-01 This practical study comprises eighteen practical and field tested software packages on landslide in soil and rock and a further six on tunnels complete with source programs user manuals and worked examples Using these software packages this book illustrates how geomaterials in hazardous areas can be analyzed for potential failure and how predictions based on realistic input data can be generated Proceedings of 9IYGEC 2023, Volume 2 Neelima Satyam,A. P. Singh,Manish S. Dixit,2024-10-23 This book presents peer reviewed papers from the proceedings of the 9th Indian Young Geotechnical Engineers conference 9IYGEC 21 22 March 2023 held at MIT Aurangabad The topics covered are advanced ground improvement techniques geosynthetics and its application geotechnical site investigations and case studies tunneling and underground structures slope stability shallow and deep foundations landslides and so on The book discusses various properties and performance attributes of Geotechnical Engineering and Foundation Engineering This book is a valuable reference book for beginners researchers academicians and professionals interested in geotechnical engineering covering the design and execution of foundations and other structures for variety of infrastructural projects *Tunnelling in Weak Rocks* Bhawani Singh,R K Goel,2006-09-26 Vast knowledge has been developed in the area of tunnelling in weak rocks over the years and this book bridges an important gap by bringing all the information together for the benefit of the tunnelling Industry In particular tunnelling in poor conditions is a huge challenge for engineers and designers and this book tackles all typical problems headon Topics covered include classification approach design approaches for site specific grounds a new invention on shielded tunnel boring machine case histories tunnel mechanics risk engineering and management culture Based on extensive field research experiences in Himalayan region and Alps Exclusive chapters on tunnelling hazards squeezing ground conditions a full detailed case study swelling ground conditions critical state rock mechanics etc Supported by over 180 figures and 90 tables of data and test examples with solutions *Rock Dynamics: From Research to Engineering* Haibo Li,Jianchun Li,Qianbing Zhang,Jian Zhao,2016-04-19 *Rock Dynamics From Research to Engineering* is a collection of the scientific and technical papers presented at the Second International Conference on Rock Dynamics and Applications RocDyn 2 Suzhou China 18 19 May 2016 The book has four sections The first section contains 8 keynote papers covering a wide range of dynamic issues related to rock *Structural Geology and Tectonics Field Guidebook—Volume 2* Soumyajit Mukherjee,2023-01-09 This book is the second volume of an edited work aiming to help novice geologists to explore terrains independently Geoscience fieldwork with focus on structural geology and tectonics has become more important in the last few years from both academic and industrial perspectives This book also works as a resource material for batches of students or geological survey professionals undergoing training as parts of their course curriculum training Industry persons on the other hand can get a first hand idea about what to expect in the field in case no academic persons are available with the team This book focuses on structural geology and tectonics and

compiles terrains from several regions of the globe This book also includes field guide chapters for primary sedimentary structures

LANDSLIDE: INVESTIGATIONS AND STABILIZATION MEASURES FOR SAFER GEO-ENVIRONMENT Dr. C Prakasam ,Dr Aravinth R ,Dr Varinder S Kanwar ,Maj Gen (Dr) B. Nagarajan ,2021-11-08 The research work focuses on detailed large scale mapping Geological Geo Technical Investigation slope stability assessment and stabilization measures of Dhalli Jhakri Landslide Shimla District Himachal Pradesh and Kotropi Landslide Mandi District Himachal Pradesh Dhalli landslide occurred on 2nd September 2017 was a structurally controlled rock slide that occurred along a Road cut slope National highway NH 5A without proper toe support Jhakri landslide is also located along the steep slope section of a National highway NH 22 connecting Rampur and Jhakri area Kotropi landslide occurred on August 2017 along the Mandi Pathankot national highway NH 154 The landslide is of complex type with deep seated failure with huge social and economic loss Landslide susceptibility map LSM have been developed for the Dhalli Jhakri and Kotropi landslide The results reveal that for Dhalli landslide site 42 15% of the total area was covered in moderately vulnerable zone and 57 85% of the area is covered in High and very high vulnerable area In Jhakri landslide site 100% of the total area was covered in Very High vulnerable zone LSM of Kotropi study area reveal that 43 5% of the total area was covered in moderate vulnerable zone 42 5% falls under high vulnerable zone and 15% falls under very high vulnerable zone Large scale mapping of the landslide sites Dhalli and Jhakri were conducted through total station The results reveal that all the study areas are located along steep slopes of various National highways

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

*Explosives and Blasting Technique* R. Holmberg,2000-01-01 This work covers such topics as EU directives and harmonization work health safety and environment recent technical development products and processes shot hole

development and management of blasting operations      *Rock Mechanics Based on an Anisotropic Jointed Rock Model (AJRM)* Walter Wittke, 2014-04-07 Dieses Buch konzentriert sich auf die Grundlagen der Felsmechanik als Basis für den sicheren und wirtschaftlichen Entwurf und Bau von Tunneln, Dräben und Bohrungen in geklüftetem und anisotropem Fels. Es ist in vier Hauptteile gegliedert: Grundlagen und Modelle, Berechnungs- und Entwurfsmethoden, Erkundungen, Versuche, Messung und Beobachtung, Anwendungen und Fallbeispiele. Die felsmechanischen Modelle berücksichtigen den Einfluss von Trennflächen auf das Spannungs-Dehnungs-Verhalten und die Durchlässigkeit von geklüftetem Fels. Dieses Buch ist für Bau- und Bergbauingenieure, Geologen, Studenten aus den entsprechenden Bereichen.

*Expanding Underground - Knowledge and Passion to Make a Positive Impact on the World* Georgios Anagnostou, Andreas Benardos, Vassilis P. Marinos, 2023-04-12 Expanding Underground: Knowledge and Passion to Make a Positive Impact on the World contains the contributions presented at the ITA AITES World Tunnel Congress 2023, Athens, Greece, 12-18 May 2023. Tunnels and underground space are a predominant engineering practice that can provide sustainable, cost-efficient and environmentally friendly solutions to the ever-growing needs of modern societies. This underground expansion in more diverse and challenging infrastructure types or to novel underground uses can foster the changes needed. At the same time, the tunneling and underground space community needs to be better prepared and equipped with knowledge, tools and experience to deal with the prevailing conditions to successfully challenge and overcome adversities on this path. The papers in this book aim at contributing to the analysis of challenging conditions, the presentation and dissemination of good practices, the introduction of new concepts, new tools and innovative elements that can help engineers and all stakeholders to reach their end goals. Expanding Underground: Knowledge and Passion to Make a Positive Impact on the World covers a wide range of aspects and topics related to the whole chain of the construction and operation of underground structures: Knowledge and Passion to Expand Underground for Sustainability and Resilience, Geological Geotechnical Site Investigation and Ground Characterization, Planning and Designing of Tunnels and Underground Structures, Mechanised Tunnelling and Microtunnelling, Conventional Tunnelling, Drill and Blast Applications, Tunnelling in Challenging Conditions, Case Histories and Lessons Learned, Innovation, Robotics and Automation, BIM, Big Data and Machine Learning Applications in Tunnelling, Safety, Risk and Operation of Underground Infrastructure and Contractual Practices, Insurance and Project Management. The book is a must-have reference for all professionals and stakeholders involved in tunneling and underground space development projects.      ICIPEG 2016

Mariyamni Awang, Berihun Mamo Negash, Nur Asyraf Md Akhir, Luluan Almanna Lubis, Abdul Ghani Md. Rafek, 2017-01-20 This book presents the proceedings of the 4th International Conference on Integrated Petroleum Engineering and Geosciences 2016 (ICIPEG 2016) held under the banner of World Engineering Science Technology Congress (ESTCON 2016) at Kuala Lumpur Convention Centre from August 15 to 17, 2016. It presents peer-reviewed research articles on exploration while also exploring a new area: shale research. In this time of low oil prices, it highlights findings to maintain the exchange of

knowledge between researchers serving as a vital bridge builder between engineers geoscientists academics and industry

*Innovation-Based Development of the Mineral Resources Sector: Challenges and Prospects* Vladimir

Litvinenko, 2018-10-11 *Innovation Based Development of the Mineral Resources Sector Challenges and Prospects* contains the contributions presented at the XI Russian German Raw Materials Conference Potsdam Germany 7-8 November 2018. The Russian German Raw Materials Conference is held within the framework of the Permanent Russian German Forum on the Issues of the Use of Raw Materials which has as goals to develop new approaches to effectively use energy mineral and renewable natural resources and to initiate cooperation in the field of sustainability and environmental protection. The contributions cover current trends in the development of raw materials markets and the world economy, the state of the environment and new technologies applied in the sector effectively responding to modern challenges. The 63 accepted papers are grouped into four main sections: Mineral exploration and mining, Mining services, Processing of raw materials, Other. *Innovation Based Development of the Mineral Resources Sector Challenges and Prospects* will be of interest to academics and researchers involved in the mineral resources sector but also to professionals in the public, foreign trade and education fields and representatives of major corporations and professional associations. [Industrial Communication Technology Handbook, Second Edition](#)

Richard Zurawski, 2014-11-07. Featuring contributions from major technology vendors, industry consortia and government and private research establishments, the *Industrial Communication Technology Handbook Second Edition* provides comprehensive and authoritative coverage of wire and wireless based specialized communication networks used in plant and factory automation, automotive applications, avionics, building automation, energy and power systems, train applications and more. New to the Second Edition: 46 brand new chapters and 21 substantially revised chapters. Inclusion of the latest most significant developments in specialized communication technologies and systems. Addition of new application domains for specialized networks. The *Industrial Communication Technology Handbook Second Edition* supplies readers with a thorough understanding of the application specific requirements for communication services and their supporting technologies. It is useful to a broad spectrum of professionals involved in the conception, design, development, standardization and use of specialized communication networks as well as academic institutions engaged in engineering education and vocational training. [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

**Artificial Intelligence Applications for Sustainable Construction** Moncef L. Nehdi, Harish Chandra Arora, Krishna Kumar, Robertas Damaševičius, Aman Kumar, 2024-02-13 Artificial Intelligence Applications for Sustainable Construction presents the latest developments in AI and ML technologies applied to real world civil engineering concerns With an increasing amount of attention on the environmental impact of every industry more construction projects are going to require sustainable construction practices This volume offers research evidence simulation results and case studies to support this change Sustainable construction in fact not only uses renewable and recyclable materials when building new structures or repairing deteriorating ones but also adopts all possible methods to reduce energy consumption and waste The concisely written but comprehensive practical knowledge put forward by this international group of highly specialized editors and contributors will prove to be beneficial to engineering students and professionals alike Presents convincing success stories that encourage application of AI powered tools to civil engineering Provides a wealth of valuable technical information to address and resolve many challenging construction problems Illustrates the most recent shifts in thinking and practice for sustainable construction

**Concrete Gravity and Arch Dams on Rock Foundation** Bronstein Vadim Izrailovich, Vainberg Alexander Isaakovich, Gaziev Erast Grigorievich, Landau Yuri Alexandrovich, Mgalobelov Yuri Borisovich, 2021-04-20 This book on the basis of a generalization and critical analysis of materials on constructed concrete dams accumulated experience in their operation and current trends considers a set of problems associated with the design and construction of concrete dams The modern principles of designing gravity and arch dams and the main provisions of the calculation justification of their reliability in comparison with US standards are outlined Great attention has been paid to rolled concrete dams taking into account their specific characteristics Ways of increasing the efficiency of dams through the improvement of layout and structural solutions calculation methods and a more complete consideration of the features of natural conditions are considered The book presents and analyzes the designs of erected concrete dams which allows for a better understanding of the approaches and decision making principles for designing dams taking into account the specifics of natural construction and other conditions and also analyzes a number of new solutions that reflect the various ways that engineering theory and practice has sought further improvement of concrete dams This work will be useful to hydraulic engineers and professionals involved in the design construction and operation of concrete dams as well as in settlement studies The book will also be of interest to academics and can be used as a textbook by university students specializing in



hydraulic engineering      Geohazards Madhavi Latha Gali,P. Raghuveer Rao,2020-08-13 This volume comprises select papers presented during the Indian Geotechnical Conference 2018 This volume discusses concepts of soil dynamics and studies related to earthquake geotechnical engineering slope stability and landslides The papers presented in this volume analyze failures connected to geotechnical and geological origins to improve professional practice codes of analysis and design This volume will prove useful to researchers and practitioners alike      **Tunnels and Underground Structures: Proceedings Tunnels & Underground Structures, Singapore 2000** KrishnanR.,2017-10-02 This text describes topics discussed at the conference including tunnelling and construction in soft ground and rocks geological investigations tunnelling machines planning for underground infrastructure safety issues and environmental and social aspects of underground development

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