

**RICHARD E. GOODMAN**

**Methods of  
Geological  
Engineering**

**in Discontinuous Rocks**

# Methods Of Geological Engineering In Discontinuous Rocks

**Marcel A. Müller**



## **Methods Of Geological Engineering In Discontinuous Rocks:**

Methods of Geological Engineering in Discontinuous Rocks Richard E. Goodman, 1976      *Discontinuity Analysis for Rock Engineering* S.D. Priest, 2012-12-06 Engineers wishing to build structures on or in rock use the discipline known as rock mechanics This discipline emerged as a subject in its own right about thirty five years ago and has developed rapidly ever since However rock mechanics is still based to a large extent on analytical techniques that were originally formulated for the mechanical design of structures made from man made materials The single most 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 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 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 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 Bearing this in mind it is surprising that until now there has been no book dedicated specifically to the subject of discontinuity analysis in rock engineering

**Fundamentals of Discrete Element Methods for Rock Engineering: Theory and Applications** Lanru Jing, Ove Stephansson, 2007-07-18 This book presents some fundamental concepts behind the basic theories and tools of discrete element methods DEM its historical development and its wide scope of applications in geology geophysics and rock engineering Unlike almost all books available on the general subject of DEM this book includes coverage of both explicit and implicit DEM approaches namely the Distinct Element Methods and Discontinuous Deformation Analysis DDA for both rigid and deformable blocks and particle systems and also the Discrete Fracture Network DFN approach for fluid flow and solute transport simulations The latter is actually also a discrete approach of importance for rock mechanics and rock engineering In addition brief introductions to some alternative approaches are also provided such as percolation theory and Cosserat micromechanics equivalence to particle systems which often appear hand in hand with the DEM in the literature Fundamentals of the particle mechanics approach using DEM for granular media is also presented Presents the fundamental concepts of the discrete models for fractured rocks including constitutive models of rock fractures and rock masses for stress deformation and fluid flow Provides a comprehensive presentation on discrete element methods including distinct elements discontinuous deformation analysis discrete fracture networks particle mechanics and Cosserat representation of granular media Features constitutive models of rock fractures and fracture system characterization methods detailing their significant impacts on the performance and uncertainty of the DEM models      **Rock Mechanics** Barry H.G. Brady, E.T. Brown, 2007-01-25 This new edition has been completely revised to reflect the notable innovations in mining engineering and

the remarkable developments in the science of rock mechanics and the practice of rock engineering taht have taken place over the last two decades Although Rock Mechanics for Underground Mining addresses many of the rock mechanics issues that arise in underground mining engineering it is not a text exclusively for mining applications Based on extensive professional research and teaching experience this book will provide an authoratative and comprehensive text for final year undergraduates and commencing postgraduate stydents For profesional practitioners not only will it be of interests to mining and geological engineers but also to civil engineers structural mining geologists and geophysicists as a standard work for professional reference purposes

**Rock Mechanics and Rock Engineering: From the Past to the Future** Reşat Ulusay,2016-11-18 Rock Mechanics and Rock Engineering From the Past to the Future contains the contributions presented at EUROCK2016 the 2016 International Symposium of the International Society for Rock Mechanics ISRM 2016 rg p Cappadocia Region Turkey 29 31 August 2016 The contributions cover almost all aspects of rock mechanics and rock engineering from theories to engineering practices emphasizing the future direction of rock engineering technologies The 204 accepted papers and eight keynote papers are grouped into several main sections Fundamental rock mechanics Rock properties and experimental rock mechanics Analytical and numerical methods in rock engineering Stability of slopes in civil and mining engineering Design methodologies and analysis Rock dynamics rock mechanics and rock engineering at historical sites and monuments Underground excavations in civil and mining engineering Coupled processes in rock mass for underground storage and waste disposal Rock mass characterization Petroleum geomechanics Carbon dioxide sequestration Instrumentation monitoring in rock engineering and back analysis Risk management and the 2016 Rocha Medal Lecture and the 2016 Franklin Lecture Rock Mechanics and Rock Engineering From the Past to the Future will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2016 organized by the Turkish National Society for Rock Mechanics is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

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 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

**Geotechnical Slope Analysis** Robin Chowdhury, Gautam Bhattacharya, Phil Flentje, 2009-11-18

Freshly updated and extended version of Slope Analysis Chowdhury Elsevier 1978

This reference book gives a complete overview of the developments in slope engineering in the last 30 years

Its multi disciplinary critical approach and the chapters devoted to seismic effects and probabilistic approaches and reliability analyses reflect the distinctive style of the original

Subjects discussed are the understanding of slope performance mechanisms of instability requirements for modeling and analysis and new techniques for observation and modeling

Special attention is paid to the relation with the increasing frequency and consequences of natural and man made hazards

Strategies and methods for assessing landslide susceptibility hazard and risk are also explored

Moreover the relevance of geotechnical analysis of slopes in the context of climate change scenarios is discussed

All theory is supported by numerous examples

A wonderful book on Slope Stability recommended as a reference book to those who are associated with the geotechnical engineering profession

undergraduates post graduates and consulting engineers

Prof Devendra Narain Singh Indian Inst of Technology Mumbai India

I have yet to see a book that excels the range and depth of Geotechnical Slope Analysis

I have failed to find a topic which is not covered and that makes the book almost a single window outlet for the whole range of readership from students to experts and from theoreticians to practicing engineers

Prof R K Bhandari New Delhi India

**Rock Failure Mechanisms** Chun'An Tang, John A. Hudson, 2010-08-06

When dealing with rock in civil engineering mining engineering and other engineering the process by which the rock fails under load should be understood so that safe structures can be built on and in the rock

However there are many ways for loading rock and rock can have a variety of idiosyncracies

This reference book provides engineers and r

**Dynamical Systems** Mahmut Reyhanoglu, 2017-03-15

There has been a considerable progress made during the recent past on mathematical techniques for studying dynamical systems that arise in science and engineering

This progress has been to a large extent due to our increasing ability to mathematically model physical processes and to analyze and solve them both analytically and numerically

With its eleven chapters this book brings together important contributions from renowned international researchers to provide an excellent survey of recent advances in

dynamical systems theory and applications The first section consists of seven chapters that focus on analytical techniques while the next section is composed of four chapters that center on computational techniques

*Fluid Flow in Fractured Porous Media* Yujing Jiang, Richeng Liu, 2019-09-30 The fluid flow in fracture porous media plays a significant role in the assessment of deep underground reservoirs such as through CO<sub>2</sub> sequestration enhanced oil recovery and geothermal energy development Many methods have been employed from laboratory experimentation to theoretical analysis and numerical simulations and allowed for many useful conclusions This Special Issue aims to report on the current advances related to this topic This collection of 58 papers represents a wide variety of topics including on granite permeability investigation grouting coal mining roadway and concrete to name but a few We sincerely hope that the papers published in this Special Issue will be an invaluable resource for our readers

*Continuum and Computational Mechanics for Geomechanical Engineers* Ömer Aydan, 2021-04-21 The field of rock mechanics and rock engineering utilizes the basic laws of continuum mechanics and the techniques developed in computational mechanics This book describes the basic concepts behind these fundamental laws and their utilization in practice irrespective of whether rock mass contains discontinuities This book consists of nine chapters and six appendices The first four chapters are concerned with continuum mechanics aspects which include the basic operations definition of stress and strain tensors and derivation of four fundamental conservation laws in the simplest yet precise manner The next two chapters are the preparation for computational mechanics which require constitutive laws of geomaterials relevant to each conservation law and the procedures for how to determine required parameters of the constitutive laws Computational mechanics solves the resulting ordinary and partial differential equations In Chapter 7 the methods of exact closed form solutions are explained and they are applied to ordinary partial differential equations with solvable boundary and initial conditions In Chapter 8 the fundamentals of approximate solution methods are explained for one dimension first and then how to extend them to multi dimensional problems The readers are expected to learn and clearly understand how they are derived and applied to various problems in geomechanics The final chapter involves the applications of the approximate methods to the actual problems in practice for geomechanical engineers which cover the continuum to discontinuum including the stress state of the earth as well as the ground motions induced by earthquakes Six appendices are provided to have a clear understanding of continuum mechanics operations and procedures for how to deal with discontinuities interfaces often encountered in rock mechanics and rock engineering

*Rock bolting: Theory and application in mining and underground construction* Ove Stephansson, 2021-06-23 This includes the Proceedings of the international symposium Abisko Sweden 28 August 2 September 1983 Rock bolts today represent the dominant support system in mines and underground structures Some results and experiences are discussed to give a better understanding of the strength of individual rock bolts and systems of bolts and the interaction between bolts and rock masses of various types Topics covered are as follows rock bolting in theory and experiments design principles and

experience and ground control and instrumentation cable bolting

**2019 Rock Dynamics Summit** Ömer Aydan, Takashi Ito, Takafumi Seiki, Katsumi Kamemura, Naoki Iwata, 2019-07-04 Rock dynamics has become one of the most important topics in the field of rock mechanics and rock engineering and involves a wide variety of topics from earthquake engineering blasting impacts failure of rock engineering structures as well as the occurrence and prediction of earthquakes induced seismicity rock bursts to non destructive testing and explorations Rock dynamics has wide applications in civil and infrastructural resources and energy geological and environmental engineering geothermal energy and earthquake hazard management and has become one of the most topical areas 2019 Rock Dynamics Summit contains 8 keynote addresses and 128 regular full papers that were presented at the 2019 Rock Dynamics Summit 2019 RDS Okinawa Japan 7 11 May 2019 a specialized conference jointly organized by the Rock Dynamics Committee of the Japanese Society of Civil Engineers JSCE RDC the Japanese Society for Rock Mechanics JSRM and which was supported by the International Society for Rock Mechanics and Rock Engineering ISRM and the Turkish National Society for Rock Mechanics TNSRM The contributions cover a wide range of topics on the dynamic behavior of rock and rock masses and scientific and engineering applications and include Laboratory tests on Dynamic Responses of Rocks and Rock Masses Fracturing of Rocks and Associated Strong Motions Estimation Procedures and Numerical Techniques of Strong Motions Associated with the Rupture of Earth's Crust and Some Strong Motion Dynamic Response and Stability of Rock Foundations Underground Excavations in Rock Rock Slopes Dynamic Responses and Stability of Stone Masonry Historical Structures and Monuments Induced Seismicity Dynamic Simulation of Loading and Excavation Blasting and machinery induced vibrations Rockburst Outburst Impacts Nondestructive Testing Using Shock Waves Case Histories of Failure Phenomenon in Rock Engineering 2019 Rock Dynamics Summit contains the state of the art in rock dynamics and will be invaluable to professionals and academics interested in the latest advances in new techniques for experiments analytical and numerical modelling as well as monitoring in dynamics of rocks and rock engineering structures

**Slope Analysis** R Chowdury, 2012-12-02 Slope Analysis summarizes the fundamental principles of slope analysis It explores not only the similarities but also the differences in rock slopes and soil slopes and it presents alternative methods of analysis new concepts and new approaches to analysis The book introduces both natural and man made slopes the nature of soils and rocks geomorphology geology and the aims of slope analysis These topics are followed by chapters about stress and strain shear strength of rock and soils and progressive failure of slopes This book also presents limit equilibrium methods I and II which are the planar failure surfaces and slip surfaces of arbitrary shape respectively It also includes stress analysis and slope stability natural slope analysis and a brief review on plasticity and shear band analysis Before presenting its conclusions the book discusses special aspects of slope analysis such as earthquake analysis pseudo static analysis dynamic analysis and anisotropy in addition to Newmark's approach

Rock Mechanics in Salt Mining M.L. Jeremic, 2020-12-17 A study on rock mechanics in salt mining this work includes coverage of

the exploration and opening of salt mining deformation and failure of the salt strata mechanics and control for different mining systems and stability analyses of the mine structures

**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

**Mechanics of Jointed and Faulted Rock** H.P. Rossmanith, 2018-04-27 Topics covered in this text include geology and structural geology mechanics dynamics of jointed and faulted rock physical modelling and testing constitutive modelling seismicity and tectonics instrumentation hydraulics and applications

**Fluid Flow in Fractured Rocks** Robert W. Zimmerman, Adriana Paluszny, 2023-12-19 FLUID FLOW IN FRACTURED ROCKS The definitive treatise on the subject for many years to come Prof Ruben Juanes MIT Authoritative textbook that provides a comprehensive and up to date introduction to fluid flow in fractured rocks Fluid Flow in Fractured Rocks provides an authoritative introduction to the topic of fluid flow through single rock fractures and fractured rock masses This book is intended for readers with interests in hydrogeology hydrology water resources structural geology reservoir engineering underground waste disposal or other fields that involve the flow of fluids through fractured rock masses Classical and established models and data are presented and carefully explained and recent computational methodologies and results are also covered Each chapter includes numerous graphs schematic diagrams and field photographs an extensive reference list and a set of problems thus providing a comprehensive learning experience that is both mathematically rigorous and accessible Written by two internationally recognized leaders in the field Fluid Flow in Fractured Rocks includes information on Nucleation and growth of fractures in rock with a multiscale characterization of their geometric traits Effect of normal and shear stresses on the transmissivity of a rock fracture and mathematics of fluid flow through a single rock fracture Solute transport in rocks with quantitative descriptions of advection molecular diffusion and dispersion Fluid Flow in Fractured Rocks is an essential resource for



researchers and postgraduate students who are interested in the field of fluid flow through fractured rocks The text is also highly suitable for professionals working in civil environmental and petroleum engineering     The Rock Physics Handbook Gary Mavko,Tapan Mukerji,Jack Dvorkin,2009-04-30 The Rock Physics Handbook addresses the relationships between geophysical observations and the underlying physical properties of rocks It distills a vast quantity of background theory and laboratory results into a series of concise chapters that provide practical solutions to problems in geophysical data interpretation This expanded second edition presents major new chapters on statistical rock physics and velocity porosity clay models for clastic sediments Other new and expanded topics include anisotropic seismic signatures borehole waves models for fractured media poroelastic models and attenuation models This new edition also provides an enhanced set of appendices with key empirical results data tables and an atlas of reservoir rock properties extended to include carbonates clays gas hydrates and heavy oils Supported by a website hosting MATLAB routines for implementing the various rock physics formulas this book is a vital resource for advanced students and university faculty as well as petroleum industry geophysicists and engineers     **Rock Characterisation, Modelling and Engineering Design Methods** Xia-Ting Feng,John A. Hudson,Fei Tan,2013-05-17 Rock Characterisation Modelling and Engineering Design Methods contains the contributions presented at the 3rd ISRM SINOROCK Symposium Shanghai China 1820 June 2013 The papers contribute to the further development of the overall rock engineering design process through the sequential linkage of the three themes of rock characterisation model

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