

DISCONTINUITY ANALYSIS FOR ROCK ENGINEERING

STEPHEN D. PRIEST

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Discontinuity Analysis For Rock Engineering

**Yossef H. Hatzor, Guowei Ma, Gen-hua
Shi**



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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

Discontinuity Analysis for Rock Engineering Stephen Donald Priest, 1995

Discontinuous Deformation Analysis in Rock Mechanics Practice Yossef H. Hatzor, Guowei Ma, Gen-hua Shi, 2017-07-20 The numerical discrete element Discontinuous Deformation Analysis DDA method was developed by Dr Gen hua Shi while he was working at the University of California Berkeley under the supervision of Prof Richard E Goodman in the late 1980s Two dimensional DDA was published in 1993 and three dimensional DDA in 2001 Since its publication DDA has been verified validated and applied in numerous studies worldwide and is now considered a powerful and robust method to address both static and dynamic engineering problems in discontinuous rock masses In this book Yossef H Hatzor and Guowei Ma co chairs of the International Society for Rock Mechanics ISRM Commission on DDA join Dr Shi in authoring a monograph that presents the state of the art in DDA research A comprehensive discussion of DDA development since its publication is provided in Chapter 1 followed by concise reviews of 2D and 3D DDA in chapters 2 and 3 Procedures to select geological and numerical input parameters for DDA are discussed in Chapter 4 and DDA validation and verification is presented in Chapter 5 Applications of DDA in underground and rock slope engineering projects are discussed in chapters 6 and 7 In Chapter 8 the novel contact theory recently developed by Dr Shi is published in its complete form for the first time This book is published within the framework of the ISRM Book Series and is the contribution of the ISRM DDA Commission to the international rock mechanics community

Rock Engineering Risk John A. Hudson, Xia-Ting Feng, 2015-05-05 This book provides a new necessary and valuable approach to the consideration of risk in underground engineering projects constructed within rock masses There are Chapters on uncertainty and risk rock engineering systems rock fractures and rock stress the design of a repository for

radioactive waste plus two major case examples relating to the **Rock Engineering and Rock Mechanics: Structures in and on Rock Masses** R. Alejano, Áurea Peruchó, 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 May Comprehensive Rock Engineering: Rock testing and site characterization, 1993 **Comprehensive Rock Engineering: Analysis and design methods** John A. Hudson, 1993 **Rock Mechanics for Resources, Energy and Environment** Marek Kwasniewski, Dariusz Lydzba, 2013-09-11 The emphasis in Rock Mechanics for Resources Energy and Environment is on the application of rock mechanics to the extraction of natural resources securing energy supplies and protecting the environment surrounding rock that is subject to engineering activities The book will be of interest to rock mechanics researchers as well as to professionals who are involved in the various branches of rock engineering Comprehensive Rock Engineering John A. Hudson, 1993 Engineers wishing to build structures on or in rock use the relatively new discipline known as rock mechanics Comprehensive Rock Engineering is an up to date comprehensive work of reference containing a compilation of knowledge in one coherent publication Clearly illustrated throughout this multi volume publication covers every aspect of rock mechanics and rock engineering The work is arranged in five volumes under the themes Fundamentals Analysis and Design Methods Rock Testing and Site Characterization Excavation Support and Monitoring and Surface and Underground Project Case Histories providing information for rock engineering application *Impact of Human Activity on the Geological Environment EUROCK 2005* Pavel Konecny, 2005-05-12 This work focuses on the impact of human activity on the geological environment and contains over 100 papers dealing with laboratory and field research investigations in geomechanics geoengineering and mathematical modelling Topics covered are grouped into eight main themes response of the rock mass to human impact slope stability field research laboratory research stability of underground openings mathematical modelling stress measurements and mineral and rock disintegration **Rock Engineering in Difficult Ground Conditions - Soft Rocks and Karst** Ivan Vrkljan, 2009-10-14 Containing 129 papers in geological and hydrogeological properties of karst regions rock properties testing methods and site characterization design methods and analyses monitoring and back analysis excavation and support environmental aspects of geotechnical engineering in karst regions and case histories this volume is of interest to professionals engineers and academics involved in rock mechanics and rock engineering *Journal of Geotechnical Engineering*, 1996 **Probabilistic Identification of Keyblocks in Rock Excavations** Rafael Jimenez Rodriguez, 2004 **A Short Course in Soil and Rock Slope Engineering** Noel Simons, Bruce Menzies, Marcus Matthews, 2001-09-28 This work comprehensively treats soil rock slope engineering in one volume It focuses on getting the fundamentals right explaining simple methods of stability analysis and applying them to a wide range of practical

applications **Mine Planning and Equipment Selection** ,2000 **Fluid Flow in Discontinuous Rocks** C.h. Lee,I.W. Farmer,1993-07-31 This study develops simple usable fracture flow models based on an understanding of discontinuity structures and the mechanics of rock and discontinuity deformation incorporating these into models derived from percolation theory *Slope Stability 2007* Yves Potvin,2007 **Comprehensive Rock Engineering: Surface and underground case histories** ,1993 **Theoretical Study of Rock Mass Investigation Efficiency** Johan G. Holmén,Nils Outters,2002
 Dirasat ,2001

Enjoying the Tune of Appearance: An Psychological Symphony within **Discontinuity Analysis For Rock Engineering**

In a world eaten by screens and the ceaseless chatter of immediate conversation, the melodic elegance and psychological symphony developed by the written word often diminish into the backdrop, eclipsed by the constant noise and interruptions that permeate our lives. However, nestled within the pages of **Discontinuity Analysis For Rock Engineering** a marvelous fictional prize overflowing with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this fascinating masterpiece conducts visitors on a mental journey, well unraveling the concealed melodies and profound affect resonating within each carefully constructed phrase. Within the depths of the moving review, we can explore the book is central harmonies, analyze its enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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