

Failure criteria for rocks

- **Mohr-coulomb criterion**
- **Hoek and Brown criterion**
- **Empirical Rock failure criterion**
- **Griffith failure criterion**
- **Bieniawski-Yudhbir criterion**
- **Ramamurthy's criterion**

Emperical Rock Failure Criteria

Xia-Ting Feng



Empirical Rock Failure Criteria:

Empirical Rock Failure Criteria P.R. Sheorey, 1997-01-01 Including case studies with complete details this work includes information on closed form inter relations between triaxial strength parameters methods to derive an equation to Mohr's envelope the influence of rock anisotropy an anisotropic rock failure criterion and three excavation case studies with complete details *The Hoek-Brown Failure criterion—From theory to application* Jianping Zuo, Jiayi Shen, 2020-01-02 This book provides a comprehensive coverage of the theory and principle of the Hoek Brown HB failure criterion methods or guidelines for estimating the HB input parameters and the methodology of application of the HB criterion in rock engineering projects It aims to help researchers engineers and research students who work in the area of rock mechanics and mining engineering Academics can quickly obtain an overview of the state of the art of the theory and principle of the Hoek Brown criterion by reading the book before they advance their researches on the topics related to rock failure criteria Geotechnical engineers can select appropriate Hoek Brown input parameters for the design and analysis of rock engineering projects with the help of the principles introduced in this book Research students may use the book as a textbook to learn the principle of rock mechanics related to rock mass properties **Rock Failure Criteria for Design of Underground Structural**

Supports Glenn A. Nicholson, 1985 This report describes an empirical constitutive model for underground excavations in rock which equates the deformation modulus to the ratio of the deviator stress to axial strain The model requires failure criteria which define both the deviator stress at failure and strain at failure Available failure criterion allows reasonable estimates of deviator stress for intact rock as well as rock mass However a failure criterion for estimating strains at failure for rock does not exist Thus this report examines the feasibility of developing a strain based failure criterion for rock Stress strain responses for two rock types sandstone and granite were evaluated Reasonable correlations were found to exist between axial strain at failure normalized with respect to unconfined compressive axial strain at failure and the following 1 Maximum shear stress normalized with respect to the unconfined compressive strength 2 Minor principal stress confining stress normalized with respect to the unconfined compressive strength Author **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 **Failure Mechanism and Stability Analysis of Rock Slope** Ke Zhang, 2020-07-02 This book presents in depth coverage of laboratory experiments theories modeling techniques and practices for the analysis and design of rock slopes in complex geological settings It addresses new concepts in connection with the kinematical element method discontinuity kinematical element method integrated karst cave stochastic model limit equilibrium method improved strength reduction method and fracture mechanics method taking into account the relevant geological features The book is chiefly

intended as a reference guide for geotechnical engineering and engineering geology professionals and as a textbook for related graduate courses

Unified Strength Theory and Its Applications Mao-Hong Yu, 2017-11-21 This book thoroughly describes a theory concerning the yield and failure of materials under multi axial stresses the Unified Strength Theory which was first proposed by the author and has been frequently quoted since It provides a system of yield and failure criteria adopted for most materials from metals to rocks concretes soils and polymers This new edition includes six additional chapters General behavior of Strength theory function Visualization of the Unified Strength Theory Equivalent Stress of the UST and Comparisons with other criteria Economic Signification of the UST General form of failure criterion Beauty of Strength Theories It is intended for researchers and graduate students in various fields including engineering mechanics material mechanics plasticity soil mechanics rock mechanics mechanics of metallic materials and civil engineering hydraulic engineering geotechnical engineering mechanical engineering and military engineering

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

Stability Analysis and Modelling of Underground Excavations in Fractured Rocks Jian Zhao, Weishen Zhu, 2003-12-18 Provides practical solutions to the challenge of modeling and analyzing rock masses Consolidates a wealth of previously published technical papers on the subject and introduces previously unseen material This authoritative title is a key reference for any Geo engineer Rock masses differ considerably from man made materials and their properties can vary with location direction and time As a result there is a critical need to capture these variations via modeling and analysis Zhu and Zhao provide an expert introduction to the techniques and analytical methods needed for studying underground excavations in fractured rock masses The book brings together previously published and new material to provide a comprehensive and up to date reference Provides practical solutions to the challenge of modeling and analyzing rock masses Consolidates a wealth of previously published technical papers on the subject and introduces previously unseen material

Geomechanics and Geodynamics of Rock Masses Vladimir Litvinenko, 2018-05-24 Geomechanics and Geodynamics of Rock Masses Selected Papers contains selected contributions from 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 book 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

New Challenges in Rock Mechanics and Rock Engineering Roberto Tomás, Miguel Cano, Adrián Riquelme, José Luis Pastor, David Benavente, Salvador Ordóñez, 2024-07-29 New Challenges in Rock Mechanics and Rock Engineering includes the contributions presented at the ISRM European Rock Mechanics Symposium Eurock 2024 Alicante Spain 15-19 July 2024 and explores cutting edge advancements in rock mechanics and rock engineering This comprehensive compilation covers various aspects of rock mechanics and rock engineering including rock properties testing methods infrastructure and mining rock mechanics design analysis stone heritage preservation geophysics numerical modeling monitoring techniques underground excavation support risk assessment and the application of EUROCODE 7 in rock engineering Furthermore it addresses areas like geomechanics for the oil and gas industry applications of artificial intelligence remote sensing methodologies and geothermal technology New Challenges in Rock Mechanics and Rock Engineering covers the latest breakthroughs and tackles the new challenges in rock mechanics and rock engineering is aimed at scientists and professionals in these fields and serves as an essential resource for keeping up to date with industry trends and solutions

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

Boundaries of Rock Mechanics Meifeng Cai, Jin'an Wang, 2008-04-01 Boundaries of Rock Mechanics Recent Advances and Challenges for the 21st Century contains 180 papers from the International Young Scholars Symposium on Rock Mechanics 2008 Beijing China 28 April-2 May 2008 The symposium was organized by the ISRM Commission on Education and sponsored by the International Society for Rock

Mechanics ISRM and *Engineering Rock Mechanics* John A Hudson, John P Harrison, 2000-06-12 Engineering rock mechanics is the discipline used to design structures built in rock These structures encompass building foundations dams slopes shafts tunnels caverns hydroelectric schemes mines radioactive waste repositories and geothermal energy projects in short any structure built on or in a rock mass Despite the variety of projects that use rock engineering the principles remain the same Engineering Rock Mechanics clearly and systematically explains the key principles behind rock engineering The book covers the basic rock mechanics principles how to study the interactions between these principles and a discussion on the fundamentals of excavation and support and the application of these in the design of surface and underground structures Engineering Rock Mechanics is recommended as an across the board source of information for the benefit of anyone involved in rock mechanics and rock engineering

Rock Engineering Design Xia-Ting Feng, John A. Hudson, 2011-07-27 Given the recent advances in site investigation techniques computing access to information and monitoring plus the current emphasis on safety accountability and sustainability this book introduces an up to date methodology for the design of all types of rock engineering projects whether surface or underground Guidance is provided on the nature of rock engineering projects

Rock Mechanics and Engineering Volume 1 Xia-Ting Feng, 2017-03-16 Principles is the first volume of the five volume set Rock Mechanics and Engineering and contains twenty four chapters from key experts in the following fields Discontinuities Anisotropy Rock Stress Geophysics Strength Criteria Modeling Rock Deformation and Failure The five volume set Comprehensive Rock Engineering which was published in 1993 has had an important influence on the development of rock mechanics and rock engineering Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable new compilation Rock Mechanics and Engineering represents a highly prestigious multi volume work edited by Professor Xia Ting Feng with the editorial advice of Professor John A Hudson This new compilation offers an extremely wideranging and comprehensive overview of the state of the art in rock mechanics and rock engineering and is composed of peer reviewed dedicated contributions by all the key experts worldwide Key features of this set are that it provides a systematic global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields Contributors are worldrenowned experts in the fields of rock mechanics and rock engineering though younger talented researchers have also been included The individual volumes cover an extremely wide array of topics grouped under five overarching themes Principles Vol 1 Laboratory and Field Testing Vol 2 Analysis Modelling and Design Vol 3 Excavation Support and Monitoring Vol 4 and Surface and Underground Projects Vol 5 This multi volume work sets a new standard for rock mechanics and engineering compendia and will be the go to resource for all engineering professionals and academics involved in rock mechanics and engineering for years to come

Rock Mechanics for Natural Resources and Infrastructure Development - Full Papers Sergio A.B. Fontoura, Ricardo Rocca, José Mendoza, 2019-09-03 Rock Mechanics for Natural Resources and Infrastructure Development contains the proceedings of the 14th ISRM International

Congress ISRM 2019 Foz do Iguaçu Brazil 13-19 September 2019 Starting in 1966 in Lisbon Portugal the International Society for Rock Mechanics and Rock Engineering ISRM holds its Congress every four years At this 14th occasion the Congress brings together researchers professors engineers and students around contemporary themes relevant to rock mechanics and rock engineering Rock Mechanics for Natural Resources and Infrastructure Development contains 7 Keynote Lectures and 449 papers in ten chapters covering topics ranging from fundamental research in rock mechanics laboratory and experimental field studies and petroleum mining and civil engineering applications Also included are the prestigious ISRM Award Lectures the Leopold Muller Award Lecture by professor Peter K Kaiser and the Manuel Rocha Award Lecture by Dr Quinghua Lei Rock Mechanics for Natural Resources and Infrastructure Development is a must read for academics engineers and students involved in rock mechanics and engineering Proceedings in Earth and geosciences Volume 6 The Proceedings in Earth and geosciences series contains proceedings of peer reviewed international conferences dealing in earth and geosciences The main topics covered by the series include geotechnical engineering underground construction mining rock mechanics soil mechanics and hydrogeology

Landslides: Theory, Practice and Modelling S.P. Pradhan, V. Vishal, T.N. Singh, 2018-06-28 This book with contributions from international landslide experts presents in depth knowledge of theories practices and modern numerical techniques for landslide analysis Landslides are a reoccurring problem across the world and need to be properly studied for their mitigation and control Due to increased natural and anthropogenic activities chances of landslide occurrence and associated hazards have increased The book focuses on landslide dynamics mechanisms and processes along with hazard mitigation using geo engineering structural geophysical and numerical tools The book contains a wealth of the latest information on all aspects of theory practices and modelling tools and techniques involved in prediction prevention monitoring mitigation and risk analysis of landslide hazards This book will bring the reader up to date on the latest trends in landslide studies and will help planners engineers scientists and researchers working on landslide engineering

Fundamentals of Rock Mechanics John Conrad Jaeger, Neville G. W. Cook, Robert Zimmerman, 2009-03-12 Widely regarded as the most authoritative and comprehensive book in its field the fourth edition of Fundamentals of Rock Mechanics includes new and substantially updated chapters to this highly praised text Extensively updated throughout this new edition contains substantially expanded chapters on poroelasticity wave propagation and subsurface stresses Features entirely new chapters on rock fractures and micromechanical models of rock behaviour Discusses fundamental concepts such as stress and strain Offers a thorough introduction to the subject before expertly delving into a fundamental self contained discussion of specific topics Unavailable for many years now back by popular demand An Instructor manual CD ROM for this title is available Please contact our Higher Education team at ahref@wiley.com or HigherEducation@wiley.com for more information Reviews With this attention to detail and rigorous adherence to clarity and exactness in description this edition will consolidate the standing achieved by the earlier

editions as a most authoritative and comprehensive book in its field. It will continue to serve as a leading reference work for geoscientists interested in structural geology, tectonics and petrophysics as well as for civil mining and petroleum engineers. Petroleum Geoscience I consider this book to be an invaluable reference for studying and understanding the fundamental science at the base of rock mechanics. I believe this to be a must-have textbook and I strongly recommend it to anyone, student or professional, interested in the subject. Rock Mechanics and Rock Engineering: An excellent book, very well presented and is a must for the shelves of serious engineers and scientists active or interested in the fields of rock mechanics and rock engineering. Highly recommended. South African Geographical Journal 2008.

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.

Geological Engineering Luis Gonzalez de Vallejo, Mercedes Ferrer, 2011-07-06. A thorough knowledge of geology is essential in the design and construction of infrastructures for transport, buildings and mining operations, while an understanding of geology is also crucial for those working in urban territorial and environmental planning and in the prevention and mitigation of geohazards. Geological Engineering provides an inte

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