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INTERNATIONAL CENTRE FOR MECHANICAL SCIENCES

ROCK FRACTURE MECHANICS

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Rock Fracture Mechanics

Yu Zhao, Kun Zheng, Chaolin Wang



Rock Fracture Mechanics:

Fracture Mechanics of Rock Atkinson, 1987-01-28 *Fracture Mechanics of Rock* H.P. Rossmanith, 2014-05-04 *Rock Fracture Mechanics* H. P. Rossmanith, 2014-09-01 **Rock Fracture Mechanics** Barry N. Whittaker, Raghu N. Singh, Gexin Sun, 1992 Modelling Rock Fracturing Processes Baotang Shen, Ove Stephansson, Mikael Rinne, 2013-10-07 This text book provides the theoretical background of rock fracture mechanics and displacement discontinuity methods used for the modelling of geomechanical problems The computer program FRACOD is used to analyse the fracture problems assessing fracture initiation and propagation in tension Mode I shear Mode II and mixed mode I and II of solid intact or jointed geomaterials The book also presents the fundamentals of thermo mechanical coupling and hydro mechanical coupling Formulations of multiple regional mechanical thermal and hydraulic functions which allow analyses of fracture mechanics problems for structures made of brittle rock like materials are provided In addition instructive examples of code verification and applications are presented Additional material The 2 D version of the FRACOD program a manual on the program and a wealth of verification examples of classical problems in physics mechanics and hydromechanics are available at <http://extras.springer.com> A large number of applications related to civil mining petroleum and environmental engineering are also included The first textbook available on modelling of rock fracture propagation Introduces readers to the fundamentals of rock fracturing Uses a modern style of teaching with theory mathematical modelling and applications in one package The basic version of the FRACOD software manual verification examples and applications are available as additional material The FRACOD program and manual enable the readers to solve fracture propagation problems on their own Ki Bok Min Department of Energy Resources Engineering College of Engineering Seoul National University Korea Challenging rock engineering applications require extreme conditions of stress temperature and hydraulic pressure resulting in rock fracturing to a various extent The FRACOD is one of few computer codes available in engineering rock mechanics that can simulate the initiation and propagation of fractures often interacting with natural fractures Its capability has been significantly enhanced to include the hydraulic and thermal fracturing with concerted interaction from multi national research and industry partners My experience with the FRACOD is very positive and I am certain that its already excellent track record will expand further in the future **Modelling Rock Fracturing Processes** Baotang Shen, Ove Stephansson, Mikael Rinne, 2020-05-06 This book is the second edition of the well known textbook *Modelling Rock Fracturing Processes* The new and extended edition provides the theoretical background of rock fracture mechanics used for modelling of 2 D and 3 D geomechanics problems and processes Fundamentals of rock fracture mechanics integrated with experimental studies of rock fracturing processes are highlighted The computer programs FRACOD 2D and 3D are used to analyse fracture initiation and propagation for the three fracture modes Mode I II and III Coupled fracture modelling with other continuous and distinct element codes including FLAC PFC RFPA TOUGH are also described A series of applications of fracture

modelling with importance for modern society is presented and discussed by distinguished rock fracture modelling experts

Applied Rock Fracture Mechanics Xuan Liang Zhao,1997 **Fracture Mechanics of Rock** Barry Kean Atkinson,1989-01 The analysis of crack problems through fracture mechanics has been applied to the study of materials such as glass metals and ceramics because relatively simple fracture criteria describe the failure of these materials The increased attention paid to experimental rock fracture mechanics has led to major contributions to the solving of geophysical problems The text presents a concise treatment of the physics and mathematics of a representative selection of problems from areas such as earthquake mechanics and prediction hydraulic fracturing hot dry rock geothermal energy fault mechanics and dynamic fragmentation **Rock Fracture Mechanics** Peng-Zhi Pan,Qing Lin,2021 *A Non-Conventional View on Rock Mechanics and Fracture Mechanics* J. Gramberg,1988-11-30 Primary brittle fracture phenomenon the axial cleavage fracture or the extension fracture i e the brittle fracture parallel to the pressure axis is the focus of this work No index Annotation copyright Book News Inc Portland Or **Fracture Mechanics Applied to Rock** Michael Peter Hardy,1973 *Continuum Mechanics Aspects of Geodynamics and Rock Fracture Mechanics* P. Thoft-Christensen,2012-12-06 During a NATO Advanced Study Institute in Izmir Tur key July 1973 on Modern Developments in Engineering Seis mology and Earthquake Engineering it emerged that a debate on Continuum Mechanics Aspects of Geodynamics and Rock Fracture Mechanics would be very welcome Therefore it was decided to seek NATO sponsorship for an Advanced Study In stitute on this subject The purpose of the new Advanced Study Institute was to provide a link between mechanics of continuum media and geo dynamic s By bringing together a group of leading scientists from the above two fields and participants actively engaged in research and applications in the same fields it was believed that fruitful discussions could emerge to facilitate an exchange of knowledge experience and newly conceived ideas The Institute aimed primarily at the solution of such problems as connected with the study of stress and strain con ditions in the Earth generic causes of earthquakes energy release and focal mechanism and seismic wave propagation in troducing modern methods of continuum and rock fracture mechanics Secondly to inspire scientists working in continuum mechanics to open new avenues of research connected with the above problems and seismologists to adapt modern advanced methods of continuum and rock fracture mechanics to their work **Rock Fracture Mechanics and Fracture Criteria** Yu Zhao,Kun Zheng,Chaolin Wang,2024-08-19 This open access book delves into the realms of geotechnical engineering and solid mechanics In order to establish fracture parameters that are both relevant and conducive to safety the book extensively investigates the fracture mechanical properties of mode I mode II and mode III in brittle rock materials Various fracture testing methods and fracture mechanics theories are employed for a comprehensive examination To provide a theoretical interpretation of the fracture test results the book presents detailed derivations of established fracture criteria Additionally new fracture criteria are introduced to enhance fracture prediction models Targeted at graduate students scientists and engineers engaged in the study of rock fracture mechanics hydraulic

fracturing and material mechanics this book serves as a valuable resource

Rock Fracture Mechanics with Displacement Discontinuity Method Mohammad Fatehi Marji, 2014-04-01

Although the crack branching bifurcation is usually considered as a dynamic process a quasi static analysis of the crack branching mechanism is proposed by using linear elastic fracture mechanics LEFM concepts of stress intensity factors SIFs and a modified higher order displacement discontinuity method Based on these concepts it has been concluded that the secondary cracks may start their propagation and causing crack branching phenomenon at the kink points In this approach a semi analytical higher order displacement discontinuity method is sophisticated with the higher order displacement discontinuity formulations near the kink points and the cracks are traversing and discretizing in counterclockwise directions Each kink point is considered as two overlapped crack tips and the mixed mode stress intensity factors near the kink for both left and right sides of the kink are computed

Mechanics of Jointed and Faulted Rock Hans Peter Rossmanith, 2020-12-18 This book focuses on the implementation and application of new concepts and methods to modelling analysis building performance control and repair of structures of and in jointed rock and rock masses It provides a forum for presentation of new research results and discussion for researchers

Fracture Mechanics of Concrete Surendra P. Shah, Stuart E. Swartz, Chengsheng Ouyang, 1995-09-28

FRACTURE MECHANICS OF CONCRETE AND ROCK This book offers engineers a unique opportunity to learn from internationally recognized leaders in their field about the latest theoretical advances in fracture mechanics in concrete reinforced concrete structures and rock At the same time it functions as a superb graduate level introduction to fracture mechanics concepts and analytical techniques Reviews in depth the basic theory behind fracture mechanics Covers the application of fracture mechanics to compression failure creep fatigue torsion and other advanced topics Extremely well researched applies experimental evidence of damage to a wide range of design cases Supplies all relevant formulas for stress intensity Covers state of the art linear elastic fracture mechanics LEFM techniques for analyzing deformations and cracking Describes nonlinear fracture mechanics NLFM and the latest RILEM modeling techniques for testing nonlinear quasi brittle materials And much more Over the past few years researchers employing techniques borrowed from fracture mechanics have made many groundbreaking discoveries concerning the causes and effects of cracking damage and fractures of plain and reinforced concrete structures and rock This in turn has resulted in the further development and refinement of fracture mechanics concepts and tools Yet despite the field's growth and the growing conviction that fracture mechanics is indispensable to an understanding of material and structural failure there continues to be a surprising shortage of textbooks and professional references on the subject Written by two of the foremost names in the field **Fracture Mechanics of Concrete** fills that gap The most comprehensive book ever written on the subject it consolidates the latest theoretical research from around the world in a single reference that can be used by students and professionals alike **Fracture Mechanics of Concrete** is divided into two sections In the first the authors lay the necessary groundwork with an in depth review of fundamental

principles In the second section the authors vividly demonstrate how fracture mechanics has been successfully applied to failures occurring in a wide array of design cases Key topics covered in these sections include State of the art linear elastic fracture mechanics LEFM techniques for analyzing deformations and cracking Nonlinear fracture mechanics NLFM and the latest RILEM modeling techniques for testing nonlinear quasi brittle materials The use of R Curves to describe cracking and fracture in quasi brittle materials The application of fracture mechanics to compression failure creep fatigue torsion and other advanced topics The most timely comprehensive and authoritative book on the subject currently available Fracture Mechanics of Concrete is both a complete instructional tool for academics and students in structural and geotechnical engineering courses and an indispensable working resource for practicing engineers Modelling Rock Fracturing Processes Baotang Shen, Ove Stephansson, Mikael Rinne, 2020 This book provides a theoretical background in rock fracture mechanics and boundary and displacement discontinuity methods used for modeling of geomechanical problems and offers online access to the FRACOD computer program with manual and applications **Applications of Rock Fracture Mechanics** Michael P. Cleary, Massachusetts Institute of Technology. Resource Extraction Laboratory, 1983 Rock Fractures in Geological Processes Agust Gudmundsson, 2011-04-28 Rock fractures control many of Earth's dynamic processes including plate boundary development tectonic earthquakes volcanic eruptions and fluid transport in the crust An understanding of rock fractures is also essential for effective exploitation of natural resources such as ground water geothermal water and petroleum This book combines results from fracture mechanics materials science rock mechanics structural geology hydrogeology and fluid mechanics to explore and explain fracture processes and fluid transport in the crust Basic concepts are developed from first principles and illustrated with worked examples linking models of geological processes to real field observations and measurements Many additional examples and exercises are provided online allowing readers to practise formulating and quantitative testing of models Rock Fractures in Geological Processes is designed for courses at the advanced undergraduate and graduate level but also forms a vital resource for researchers and industry professionals concerned with fractures and fluid transport in the Earth's crust *Porous Rock Fracture Mechanics* Amir Shojaei, Jianfu Shao, 2017-05-05 Porous Rock Failure Mechanics Hydraulic Fracturing Drilling and Structural Engineering focuses on the fracture mechanics of porous rocks and modern simulation techniques for progressive quasi static and dynamic fractures The topics covered in this volume include a wide range of academic and industrial applications including petroleum mining and civil engineering Chapters focus on advanced topics in the field of rock's fracture mechanics and address theoretical concepts experimental characterization numerical simulation techniques and their applications as appropriate Each chapter reflects the current state of the art in terms of the modern use of fracture simulation in industrial and academic sectors Some of the major contributions in this volume include but are not limited to anisotropic elasto plastic deformation mechanisms in fluid saturated porous rocks dynamics of fluids transport in fractured rocks and simulation techniques fracture mechanics

and simulation techniques in porous rocks fluid structure interaction in hydraulic driven fractures advanced numerical techniques for simulation of progressive fracture including multiscale modeling and micromechanical approaches for porous rocks and quasi static versus dynamic fractures in porous rocks This book will serve as an important resource for petroleum geomechanics drilling and structural engineers R D managers in industry and academia Includes a strong editorial team and quality experts as chapter authors Presents topics identified for individual chapters are current relevant and interesting Focuses on advanced topics such as fluid coupled fractures rock s continuum damage mechanics and multiscale modeling Provides a one stop advanced level reference for a graduate course focusing on rock s mechanics

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