

Dov Bahat  
Avinoam Rabinovitch  
Vladimir Frid

# Tensile Fracturing in Rocks

Tectonofractographic  
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# Tensile Fracturing In Rocks

**Hugh Corey Heard**



## **Tensile Fracturing In Rocks:**

**Tensile Fracturing in Rocks** Dov Bahat, Avinoam Rabinovitch, Vladimir Frid, 2004-10-05 Tensile Fracturing in Rocks presents field observations on fracturing of sedimentary rocks and granite outcrops from various provinces in three continents. It also combines results of recent experiments conducted at different laboratories around the world with current theories on fracturing. In treating faults, this book limits itself to faults that are associated with joint sets produced by definable causes and occasionally to cases where interaction between the two types of fracture faults and joints is not clear. The book's subject matter is divided over six chapters which are briefly described below. Chapter 1 summarizes current key concepts in fracture physics. It starts with a presentation of the elastic theory of fracture and concentrates on the results of linear elastic fracture mechanics. The chapter touches also upon other fracture properties e.g. crack nucleation, dynamic fracturing and slow fracturing processes. Nucleation is addressed by statistical mechanics methods incorporating modern approaches of thermal and fiber bundle processes. The analyses of dynamic fracturing and slow fracturing focus on the differences as compared to the linear elastic approach. The controversy in interpreting experimental dynamic results is highlighted as are the surface morphology patterns that emerge in fracturing and the non-Griffith crack extension criterion in very slow fracturing processes.

**Tensile Fracturing in Rocks** Dov Bahat, Avinoam Rabinovitch, Vladimir Frid, 2005-08-31 Tensile Fracturing in Rocks presents field observations on fracturing of sedimentary rocks and granite outcrops from various provinces in three continents. It also combines results of recent experiments conducted at different laboratories around the world with current theories on fracturing. In treating faults, this book limits itself to faults that are associated with joint sets produced by definable causes and occasionally to cases where interaction between the two types of fracture faults and joints is not clear. The book's subject matter is divided over six chapters which are briefly described below. Chapter 1 summarizes current key concepts in fracture physics. It starts with a presentation of the elastic theory of fracture and concentrates on the results of linear elastic fracture mechanics. The chapter touches also upon other fracture properties e.g. crack nucleation, dynamic fracturing and slow fracturing processes. Nucleation is addressed by statistical mechanics methods incorporating modern approaches of thermal and fiber bundle processes. The analyses of dynamic fracturing and slow fracturing focus on the differences as compared to the linear elastic approach. The controversy in interpreting experimental dynamic results is highlighted as are the surface morphology patterns that emerge in fracturing and the non-Griffith crack extension criterion in very slow fracturing processes.

Dynamic Tensile Fracture in Rock D. E. Grady, R. E. Hollenbach, 1978 **Flow and Fracture of Rocks** Hugh Corey Heard, 1972 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 16 The Griggs Volume David Tressel Griggs was born October 6 1911 in Columbus Ohio. His parents were Robert Fiske and Laura Amelia Tressel Griggs. His father was a widely known professor of botany and a leading ecologist and environmental conservationist at a time when these viewpoints were less familiar than they are today. David

was an undergraduate at Ohio State University in 1930 when he participated in a National Geographic Society expedition led by his father to the Valley of Ten Thousand Smokes This Alaskan experience and the encouragement he received from a gifted and enthusiastic teacher Professor Edmund M Spieker led him to choose for his life work the application of physics to the problems of the earth After a year of graduate studies in geology at Ohio State David moved on in 1933 to Harvard where a new program of high pressure studies devoted to geophysical problems had just been initiated under the inspired guidance of Percy W Bridgman pre eminent leader in the experimental exploration of the physics of very high pressures and in the philosophical analysis of the logical processes of scientific thinking

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

**Experimental and Numerical Simulations of Rock Physics** Huaimin Dong, Yihuai Zhang, Weichao Yan, 2025-09-01 Rock physics experiments and numerical simulations are indispensable tools in geology and mineral resources exploration Experiments can provide real data on the physical properties of rocks while numerical simulations can reproduce these properties and predict behavior under unknown conditions on a computer Understanding the physical properties of rocks is crucial in energy source exploration and development Rock physics experiments can perform various tests on samples under controlled environments These experiments can provide real data on the physical properties In contrast numerical simulations have the advantages of low cost and high flexibility Through numerical simulations the physical properties of rocks can be reproduced on a computer and their behavior under unknown conditions can be predicted Combining rock physics experiments with numerical simulations can provide a more comprehensive understanding of the physical properties of rocks and offer more accurate

data support for energy source exploration and development

**Gas-water-rock interaction and multi physical field coupling mechanism** Leilei Si,Yong Liu,Guangyao Si,Jian Zhang,Hongtu Zhang,2023-05-11 Advances in Fluid-Solid Coupling Processes between Fractures and Porous Rocks: Experimental and Numerical Investigation Shiming Wei,Peng Tan,Xiang Rao,Yang Xia,Meng Meng,Yuhan Huang,Bamidele Victor Ayodele, Hydraulic fracturing is the key measure for improving recovery of unconventional oil and gas reservoirs Prediction of fracture morphology and productivity after fracturing is critical for fracturing design and optimization The hydraulic fracturing process is to open porous rocks by artificially injecting highly compressed fluid and the hydraulic fracture will be closed under the compaction of in situ stress during the production process In this regard hydraulic fracturing and production processes are both fluid solid coupling processes involving fractures and porous rocks This Research Topic aims to gather the latest studies addressing how to improve the prediction accuracy of hydraulic fracturing morphology and post fracturing productivity through experimental and numerical investigation The experimental research shall underline hydraulic fracturing and fracture conductivity experiments and associated experimental methods while the numerical research shall pay particular attention to discrete fracture network models including the calculation efficiency and accuracy as well as the applicability

**Rock Fracture and Blasting** Zong-Xian Zhang,2016-04-26 Rock Fracture and Blasting Theory and Applications provides the latest on stress waves shock waves and rock fracture all necessary components that must be critically analyzed to maximize results in rock blasting The positioning of charges and their capacity and sequencing are covered in this book and must be carefully modeled to minimize impact in the surrounding environment Through an explanation of these topics author Professor Zhang s experience in the field and his theoretical knowledge users will find a thorough guide that is not only up to date but complete with a unique perspective on the field Includes a rigorous exposition of Stress Waves and Shock Waves as well as Rock Fracture and Fragmentation Provides both Empirical and Hybrid Stress Blasting Modeling tools and techniques for designing effective blast plans Offers advanced knowledge that enables users to choose better blast techniques Includes exercises for learning and training in each chapter

**The Fracture of Rocks** J. L. Bles,Bernard Feuga,1986 **Faulting in Brittle Rocks** Georg Mandl,2013-04-17 This book provides an introduction into the mechanics of faulting in the brittle crust of the Earth It developed from my annual two semester course on tectono mechanics for graduate students of engineering geology and of rock engineering at the Technical University of Graz Austria In this course it is not my task to present a broad exposition and geometrical description of geological structures but rather to focus on the mechanical processes that produce the structures Although this was also the aim of my former book Mechanics of Tectonic Faulting Models and Basic Concepts 1988 Elsevier henceforth referred to as MTF the present book is different in organisation and content in order to meet the requirements of the courses and to include more recent developments Instead of following the traditional subdivision into extensional compressional and strike slip faulting the presentation focuses on mechanical aspects

of tectonic faulting that are common to various or even all types of tectonic faults in the brittle regime. In this way geometrically disparate or dissimilar fault structures may be revealed as closely related by the underlying mechanical process and complex structures may be better understood. It may be useful to indicate how the chapters in the book are organised. The first three chapters are an introduction to rock mechanics tailored to applications in geology. It also presents the extremely useful graphical method of Mohr's stress circle which is freely used throughout the book to keep the mathematics to an absolute minimum.

*Physical Properties and Mechanical Theory of Rock Materials with Defects* Chun Zhu, Bin Gong, Weiyao Guo, 2025-09-25 Under the influence of geostress seepage weathering and artificial disturbance rock materials inevitably develop defects fissures cracks pores voids faults etc which greatly reduce the physical and mechanical properties of rock materials. With the development of large scale engineering construction and resource exploitation there is an increasing demand for high strength rock masses. Thus the development and refinement of mechanics theories pertaining to rock materials with defects are necessary. The substratum of these large scale engineering projects predominantly comprises various types of rock mass materials. Those typical defects of rock mass materials often manifest at scales beyond the mesoscopic and microscopic scales but below the macroscopic scale making it difficult to discern statistical laws governing their behavior. Therefore it is difficult to determine the reasonable statistical scale of volume units when constructing the theoretical system of mechanics. At the same time testing the physical and mechanical parameters of rock materials with defects will also facilitate us to have a clear understanding of the reliability of the project. These related research and innovations provide crucial insights for stability analysis in engineering construction.

*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

*Physics and Seismicity of Rocks* Longjun Dong, Guoyang Fu, Wei Wu, 2021-11-30

*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

Structural Geology Robert J. Twiss, Eldridge M. Moores, 1992-04-15 For advanced undergraduate structural geology courses

**Advances in the study of natural fractures in deep and unconventional reservoirs** Lei Gong, Kouqi Liu, Wei Ju, 2023-05-08

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 18-20 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      *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      Harmonising Rock Engineering and the Environment Qihu Qian, Yingxin Zhou, 2011-09-14 Harmonising Rock Mechanics and the Environment comprises the proceedings invited and contributed papers of the 12th ISRM International Congress on Rock Mechanics Beijing China 18 21 October 2011 The contributions cover the entire scope of rock mechanics and rock engineering with an emphasis on the critical role of both disciplines in sustain

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