

GEOMECHANICS RESEARCH SERIES 2



Mechanical Behavior of Rocks under High Pressure Conditions

Mitsuhiko Shimada

Mechanical Behavior Of Rocks Under High Pressure Conditions

Xia-Ting Feng



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Mechanical Behaviour of Rocks Under High Pressure Conditions Mitsuhiro Shimada, 2000-01-01 Knowledge of the mechanical properties of rocks at high pressure and temperature is fundamental not only for material science but also for earth science such as for solving the mechanism of earthquakes and tectonic processes For example physical bases of the earthquake prediction based on the rock mechanics have been proposed and extensive seismological geophysical and geochemical observations have been conducted to find precursory phenomena before large earthquakes However we cannot help telling for the present that we do not have sufficient knowledge of an effective and reliable method for earthquake prediction The book is mainly concerned with comprehensive source of information on the mechanical properties and behavior of rocks under high pressure that scans current state of the art knowledge and shows contribution in establishing an experimental basis for the understanding of the mechanism of rock deformation in the earth's interior The book can be used as textbook for graduate students by university teachers to prepare courses and seminars and for active scientists and engineers who want to become familiar with a fascinating new field

Mechanical Behavior and Damage Fracture Mechanism of Deep Rocks Sheng-Qi Yang, 2022-01-13 This book presents mainly experimental studies on the mechanical behavior and damage fracture mechanism of deep rocks including sandstone marble mudstone and granite combining with several advanced technologies of X ray micro CT and AE monitoring It has several unique features 1 Investigates the influence of loading path on triaxial strength and deformation behavior of sandstone and marble 2 Analyzes the effect of borehole size on triaxial strength and deformation behavior of hollow sandstone 3 Explores the influence of high temperature on triaxial deformation and permeability behavior of sandstone and granite 4 to reveal the damage fracture mechanism of deep rocks using spatial AE techniques and X ray micro CT observations This work will appeal to a wide readership from technicians in the field of geotechnical engineering and engineering geology to scholars carrying out research in the rock mechanics

Experimental Rock Deformation - The Brittle Field M.S. Paterson, Teng-fong Wong, 2005-04-20 The primary aim of this monograph is to present the current knowledge of brittle properties of rocks as determined in laboratory experiments The principal aspects of brittle behavior are described with special attention to the fundamental physical aspects Thus the book provides a useful introduction to the basics of rock properties for engineering and earth science applications Furthermore it serves as a guide for graduate students and non specialists by presenting the relevant background material and where it can be found For the new edition a further chapter has been added and almost half of the chapters have been extensively revised and the others updated

Applied Mechanics Reviews, 2000 *Mechanical Behavior of Materials under Dynamic Loads* Ulric S. Lindholm, 2012-12-06 An adequate physical and mathematical description of material behavior is basic to all engineering applications Fortunately many problems may be treated entirely within the framework of elastic material response While even these problems may become quite complex because of

geometrical and loading conditions the linearity reversibility and rate independence generally applicable to elastic material description certainly eases the task of the analyst Today however we are increasingly confronted with practical problems which involve material response which is inelastic hysteretic and rate dependent combined with loading which is transient in nature These problems include for instance structural response to moving or impulsive loads all the areas of ballistics internal external and terminal contact stresses under high speed bearings high speed machining rolling and other metal working processes explosive and impact forming shock attenuation structures seismic wave propagation and many others of equal importance As these problems were encountered it became increasingly evident that we did not have at hand the physical or mathematical description of the behavior of materials necessary to produce realistic solutions Thus during the last ten years particularly there has been considerable effort expended toward the generation of both experimental data on the dynamic mechanical response of materials as well as the formulation of realistic constitutive theories It was the purpose of the Symposium at which the articles in this book were presented to discuss and review recent developments in this field

Processes in GeoMedia—Volume VI Tatiana Chaplina, 2023-01-01 The sixth volume of Processes in GeoMedia connected to the Russian journal with the same name publishes new results of theoretical and experimental studies of the processes occurring in the bowels of the earth the ocean and the atmosphere particular attention is paid to geomechanical aspects of the production of hydrocarbons including laboriously extracted oils and to the ecological problems of the biosphere the human impact on the environment methods of geophysical research are within the range of the journal interests

Geomechanical Behaviors of Deeply Buried Rock under Triaxial Disturbed Stress Conditions Yu Wang, Xuefeng Yi, Lei Yin, 2023-12-05 This book is intended as a reference book for advanced graduate students and research engineers in rock mechanics related to civil mining hydropower and traffic engineering etc For rock mass during construction they are often subjected to complicated stress disturbance conditions such as human induced and environmental loading acting on rock that is cyclic or fatigue in nature Typical forms of stress disturbance include excavation unloading blasting vibration earthquake drilling and vehicle loading etc Usually the stress disturbance condition is inferred as a kind of dynamic loading and differs dramatically from those under static loads Along with the constructions on rock mass a lot of disasters e g tunnel rockburst induced seismicity and sand liquefaction are cyclic and dynamic processes Nevertheless insufficient attentions have been paid to the influences of disturbed stress on the long term stability of rock mass construction so far The discrepancy between theoretical prediction by approximating the dynamic problems as static ones and actual performance of constructed engineering structures is usually tolerated As a result investigation of the disturbed stress on rock is always vital to the rational design and the long term stability prediction of rock constructions

Proceedings of the International Field Exploration and Development Conference 2024 Jia'en Lin, 2025-07-04 This book compiles selected papers from the 14th International Field Exploration and Development Conference IFEDC 2024 The work

focuses on topics including Reservoir Exploration Reservoir Drilling Completion Field Geophysics Well Logging Petroliferous Basin Evaluation Oil Gas Accumulation Fine Reservoir Description Complex Reservoir Dynamics and Analysis Low Permeability Tight Oil Gas Reservoirs Shale Oil Gas Fracture Vuggy Reservoirs Enhanced Oil Recovery in Mature Oil Fields Enhanced Oil Recovery for Heavy Oil Reservoirs Big Data and Artificial Intelligence Formation Mechanisms and Prediction of Deep Carbonate Reservoirs and other Unconventional Resources The conference serves as a platform not only for exchanging experiences but also for advancing scientific research in oil gas exploration and production The primary audience for this work includes reservoir engineers geological engineers senior engineers enterprise managers and students

AI for Rock Dynamics Manchao He, LiGe Wang, Wei Yao, Wengang Dang, Zhuo Wang, 2025-07-18 This Open Access book covers various aspects in rock dynamics comprehensively such as theoretical foundations testing techniques dynamic properties stress wave propagation rockburst dynamics numerical simulation and engineering applications *AI for Rock Dynamics* is a groundbreaking Open Access monograph that redefines publishing through Luffa AI a China developed large language model LLM Set to captivate at the London Book Fair 2025 it marks a transformative milestone in rock mechanics and beyond Covering theoretical foundations testing instruments numerical simulation and engineering applications it s an essential resource for professionals in civil engineering mining and geology alike Its clear presentation illustrations and practical insights make it pivotal for tackling rock mechanics challenges Unique for its homegrown LLM it showcases Chinese AI s potential to advance research As China s first LLM powered book it revolutionizes knowledge production organization and dissemination This landmark was achieved through a strategic partnership between CNPIEC Kexin Technology CSRME and Springer Nature unprecedentedly integrating cutting edge technology academic expertise and global publishing prominence Published as Open Access it democratizes knowledge fostering collaboration and innovation The first of its kind signifies AI s potential to transform publishing streamlining content creation and enhancing dissemination *AI for Rock Dynamics* is a beacon of progress uniting technology and academia to push knowledge boundaries with concerted efforts Please Join us in celebrating this historic achievement and witness the dawn of AI powered publishing

Rock Dynamics: From Research to Engineering Haibo Li, Jianchun Li, Qianbing Zhang, Jian Zhao, 2016-04-19 *Rock Dynamics From Research to Engineering* is a collection of the scientific and technical papers presented at the Second International Conference on Rock Dynamics and Applications RocDyn 2 Suzhou China 18 19 May 2016 The book has four sections The first section contains 8 keynote papers covering a wide range of dynamic issues related to roc

Rockburst Xia-Ting Feng, 2017-10-19 *Rockburst Mechanisms Monitoring Warning and Mitigation* invites the most relevant researchers and practitioners worldwide to discuss the rock mechanics phenomenon related to increased stress and energy levels in intact rock introduced by drilling explosion blasting and other activities When critical energy levels are reached rockbursts can occur causing human and material losses in mining and tunneling environments This book is the most comprehensive information source in English to cover rockbursts

Comprised of four main parts the book covers in detail the theoretical concepts related to rockbursts and introduces the current computational modeling techniques and laboratory tests available The second part is devoted to case studies in mining coal and metal and tunneling environments worldwide The third part covers the most recent advances in measurement and monitoring Special focus is given to the interpretation of signals and reliability of systems The following part addresses warning and risk mitigation through the proposition of a single risk assessment index and a comprehensive warning index to portray the stress status of the rock and a successful case study The final part of the book discusses mitigation including best practices for distressing and efficiently supporting rock Designed to provide the most comprehensive coverage the book will provide practicing mining and tunneling engineers the theoretical background needed to better cope with the phenomenon practical advice from case studies and practical mitigation actions and techniques Academics in rock mechanics will appreciate this complete reference to rockburst which features how to analyze stress signals and use computational modeling more efficiently Offers understanding of the fundamental theoretical concepts of rockbursts Explores how to analyze signals from current monitoring systems Shows how to apply mitigating techniques in current work Identifies characteristics that should be measured in order to detect rockburst risk **Geophysical Abstracts**

,1970-07 *Fatigue Mechanical Behaviors of Rock-Backfill Composites: Laboratory Study* Yu Wang,Yongchun

Yu,2024-07-18 This book is intended as a reference book for advanced graduate students and research engineers in rock mechanics related to mining engineering The cemented tailings backfill CTB technique is widely used in deep underground mining since this technique is effective to support surrounding rock control rockburst reduce ground subsidence and reduce surface disposal of tailings Plenty of investigations have been attempted to experimentally or numerically evaluate the strength of CTB with different components e g mixture of cement tailings fly ash blast furnace slag etc to ensure the geological stability when extracting adjacent stopes After extracting ore from stopes CTB is filled in the gob stress redistribution occurs in the backfill stope and surrounding rocks Due to the elasticity mismatch of these two kinds of material differential deformation occurs and they both resist the overburden pressure and deformation As a result the interactions between the surrounding rock and tailing backfill material have significant role in maintaining the long term stability of mine stopes Apart from the investigations on the static mechanical behaviors of rock backfill composited backfill RBCS material the RBCS in the stope are also exposed to disturbed stress e g blast vibration excavation earthquake etc and the disturbed stress is usually equivalent to cyclic or fatigue loads As a result investigations on rock backfill interactions subjected to the disturbed stress are critical and significant to maintain the long term stability of mine stopes **Coalbed Methane in**

China Yan Song,Xinmin Zhang,Shaobo Liu,2021-02-09 The coalbed methane CBM reserve in China ranks third in the world with a total resource of 36 8 10¹² m³ Exploitation of CBM has an important practical significance to ensure the long term rapid development of China natural gas industry Therefore in 2002 the Ministry of Science and Technology of China set up a

national 973 program to study CBM system and resolve problems of CBM exploration and exploitation in China All the main research results and new insights from the program are presented in this book The book is divided into 11 chapters The first chapter mainly introduces the present situation of CBM exploration and development in China and abroad Chapters 2 through 9 illustrate the geological theory and prospect evaluation methods Then chapters 10 and 11 discuss CBM recovery mechanisms and technology The book systematically describes the origin storage accumulation and emission of CBM in China and also proposes new methods and technologies on resource evaluation prospect prediction seismic interpretation and enhanced recovery The book will appeal to geologists lecturers and students who are involved in the CBM industry and connected with coal and conventional hydrocarbon resources research *Rock Friction and Earthquake Prediction*

WYSS,BYERLEE,2012-12-06 **11. Symposium "Tektonik, Struktur- und Kristallingeologie"** Sonja Phillipp,2006

The Second Half Century of Rock Mechanics, Three Volume Set Luis Ribeiro e Sousa,Claudio Olalla,N.

Grossmann,2007-08-05 Forty one years ago the International Society for Rock Mechanics ISRM held its 1st International Congress in Lisbon Portugal In July 2007 the 11th ISRM Congress returned to Lisbon where the Portuguese Geotechnical Society SPG the Portuguese National Group of the ISRM hosted the meeting The Second Half Century of Rock Mechanics comprises **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 **Treatise on Geophysics, Volume 2** G David Price,2010-04-20 Treatise on

Geophysics Mineral Physics Volume 2 provides a comprehensive review of the current state of understanding of mineral physics Each chapter demonstrates the significant progress that has been made in the understanding of the physics and chemistry of minerals and also highlights a number of issues which are still outstanding or that need further work to resolve current contradictions The book first reviews the current status of our understanding of the nature of the deep Earth These include the seismic properties of rocks and minerals problems of the lower mantle and the core mantle boundary and the state of knowledge on mantle chemistry and the nature and evolution of the core The discussions then turn to the theory underlying high pressure high temperature physics and the major experimental methods being developed to probe this parameter space The remaining chapters explain the specific techniques for measuring elastic and acoustic properties electronic and magnetic properties and rheological properties the nature and origin of anisotropy in the Earth the properties of melt and the magnetic and electrical properties of mantle phases Self contained volume starts with an overview of the subject then explores each topic with in depth detail Extensive reference lists and cross references with other volumes to facilitate further research Full color figures and tables support the text and aid in understanding Content suited for both the

expert and non expert **KWIC Index of Rock Mechanics Literature** J P Jenkins, E. T. Brown, 2016-06-03 KWIC Index of Rock Mechanics Literature Part 2 1969 1976 is an index of subjects in rock mechanics The KWIC keyword in context index is produced by cyclic permutation of significant words in the title of the publication The text covers materials in rock mechanics and geomechanics published around the 70s The book will be of great use to students researchers and practitioners of geological sciences

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