

ISRM SYMPOSIUM: EUROCK '92

ROCK CHARACTERIZATION



Edited by
J. A. Hudson

Isrm Symposium Eurock Ninety Two Rock Characterization

**Adam Bezvijen, Walter Wittke, Harry
Poulos, Hany Shehata**



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Rock Characterization John A. Hudson, 1992 Fluid Dynamics in Complex Fractured-Porous Systems Boris Faybishenko, Sally M. Benson, John E. Gale, 2015-06-04 Despite of many years of studies predicting fluid flow heat and chemical transport in fractured porous media remains a challenge for scientists and engineers worldwide This monograph is the third in a series on the dynamics of fluids and transport in fractured rock published by the American Geophysical Union Geophysical Monograph Series Vol 162 2005 and Geophysical Monograph No 122 2000 This monograph is dedicated to the late Dr Paul Witherspoon for his seminal influence on the development of ideas and methodologies and the birth of contemporary fractured rock hydrogeology including such fundamental and applied problems as environmental remediation exploitation of oil gas and geothermal resources disposal of spent nuclear fuel and geotechnical engineering This monograph addresses fundamental and applied scientific questions and is intended to assist scientists and practitioners bridge gaps in the current scientific knowledge in the areas of theoretical fluids dynamics field measurements and experiments for different practical applications Readers of this book will include researchers engineers and professionals within academia Federal agencies and industry as well as graduate undergraduate students involved in theoretical experimental and numerical modeling studies of fluid dynamics and reactive chemical transport in the unsaturated and saturated zones including studies pertaining to petroleum and geothermal reservoirs environmental management and remediation mining gas storage and radioactive waste isolation in underground repositories Volume highlights include discussions of the following Fundamentals of using a complex systems approach to describe flow and transport in fractured porous media Methods of Field Measurements and Experiments Collective behavior and emergent properties of complex fractured rock systems Connection to the surrounding environment Multi disciplinary research for different applications *Rock Mechanics and Engineering Volume 5* Xia-Ting Feng, 2017-07-20 Surface and Underground Projects is the last volume of the five volume set Rock Mechanics and Engineering and contains twenty one chapters from key experts in the following fields Slopes Tunnels and Caverns Mining Petroleum Engineering Thermo Hydro Mechanics in Gas Storage Loading and Radioactive Waste Disposal 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

Safety and environmental issues in rock engineering, volume 2 L.M. Ribeiro E Sousa,N.F. Grossmann,2022-06-03 State of the art in science engineering aspects of rock mechanics in the areas of safety environmental protection Discusses various aspects concerning modelling in safety analysis stability of underground structures and the contribution of incident and accident cases to the progress of rock engineering activities The influence of the environment is also considered namely in heat mass transport contaminant migration and underground storage of waste products

Rock Slope Engineering Duncan C. Wyllie,2017-09-18 Rock Slope Engineering covers the investigation design excavation and remediation of man made rock cuts and natural slopes primarily for civil engineering applications It presents design information on structural geology shear strength of rock and ground water including weathered rock Slope design methods are discussed for planar wedge circular and toppling failures including seismic design and numerical analysis Information is also provided on blasting slope stabilization movement monitoring and civil engineering applications This fifth edition has been extensively up dated with new chapters on weathered rock including shear strength in relation to weathering grades and seismic design of rock slopes for pseudo static stability and Newmark displacement It now includes the use of remote sensing techniques such as LiDAR to monitor slope movement and collect structural geology data The chapter on numerical analysis has been revised with emphasis on civil applications The book is written for practitioners working in the fields of transportation energy and industrial development and undergraduate and graduate level courses in geological engineering

Engineering Geology for Society and Territory - Volume 2 Giorgio Lollino,Daniele Giordan,Giovanni B. Crosta,Jordi Corominas,Rafiq Azzam,Janusz Wasowski,Nicola Sciarra,2014-09-16 This book is one out of 8 IAEG XII Congress volumes and deals with Landslide processes including field data and monitoring techniques prediction and forecasting of landslide occurrence regional landslide inventories and dating studies modeling of slope instabilities and secondary hazards e g impulse waves and landslide induced tsunamis landslide dam failures and breaching hazard and risk assessment earthquake and rainfall induced landslides instabilities of volcanic edifices remedial works and mitigation measures development of innovative stabilization techniques and applicability to specific engineering geological conditions use of geophysical techniques for landslide characterization and investigation of triggering mechanisms Focuses is given to innovative techniques well documented case studies in different environments critical components of engineering geological and geotechnical investigations hydrological and hydrogeological investigations remote sensing and geophysical techniques

modeling of triggering collapse run out and landslide reactivation geotechnical design and construction procedures in landslide zones interaction of landslides with structures and infrastructures and possibility of domino effects The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15 19 2014 analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress environment processes issues and approaches The congress topics and subject areas of the 8 IAEG XII Congress volumes are Climate Change and Engineering Geology Landslide Processes River Basins Reservoir Sedimentation and Water Resources Marine and Coastal Processes Urban Geology Sustainable Planning and Landscape Exploitation Applied Geology for Major Engineering Projects Education Professional Ethics and Public Recognition of Engineering Geology Preservation of Cultural Heritage

Eurock 2006: Multiphysics Coupling and Long Term Behaviour in Rock Mechanics Alain van Cotthem, Robert Charlier, Jean-Francois Thimus, Jean-Pierre Tshibangu, 2006-04-27 Special emphasis is given to the constitutive behaviour of rock material including rock mechanics and partial saturation chemo mechanics thermo hydro mechanics weathering and creep Theoretical concepts laboratory and field experiments and numerical simulations are discussed Multiphysics coupling and long term behaviour has practical applicat

Integrated Fault Seal Analysis S. Ogilvie, S. Dee, R.W. Wilson, W. Bailey, 2020-08-03 Faults commonly trap fluids such as hydrocarbons and water and therefore are of economic significance During hydrocarbon field development smaller faults can provide baffles and or conduits to flow There are relatively simple well established workflows to carry out a fault seal analysis for siliciclastic rocks based primarily on clay content There are however outstanding challenges related to other rock types to calibrating fault seal models with static and dynamic data and to handling uncertainty The variety of studies presented here demonstrate the types of data required and workflows followed in today s environment in order to understand the uncertainties risks and upsides associated with fault related fluid flow These studies span all parts of the hydrocarbon value chain from exploration to production but are also of relevance for other industries such as radioactive waste and CO2 containment

Landslide Hazards in Alpine Region: Mechanics and Mitigation Yun Zheng, Dongri Song, Fei Meng, Yongtao Yang, Tingting Liu, Xuwei Liu, 2022-11-01

Guidelines for Open Pit Slope Design in Weak Rocks Derek Martin, Peter Stacey, 2018-01-10 Weak rocks encountered in open pit mines cover a wide variety of materials with properties ranging between soil and rock As such they can provide a significant challenge for the slope designer For these materials the mass strength can be the primary control in the design of the pit slopes although structures can also play an important role Because of the typically weak nature of the materials groundwater and surface water can also have a controlling influence on stability Guidelines for Open Pit Slope Design in Weak Rocks is a companion to Guidelines for Open Pit Slope Design which was published in 2009 and dealt primarily with strong rocks Both books were commissioned under the Large Open Pit LOP project which is sponsored by major mining companies These books provide summaries of the current state of practice for the design implementation and

assessment of slopes in open pits with a view to meeting the requirements of safety as well as the recovery of anticipated ore reserves This book which follows the general cycle of the slope design process for open pits contains 12 chapters These chapters were compiled and written by industry experts and contain a large number of case histories The initial chapters address field data collection the critical aspects of determining the strength of weak rocks the role of groundwater in weak rock slope stability and slope design considerations which can differ somewhat from those applied to strong rock The subsequent chapters address the principal weak rock types that are encountered in open pit mines including cemented colluvial sediments weak sedimentary mudstone rocks soft coals and chalk weak limestone saprolite soft iron ores and other leached rocks and hydrothermally altered rocks A final chapter deals with design implementation aspects including mine planning monitoring surface water control and closure of weak rock slopes As with the other books in this series *Guidelines for Open Pit Slope Design in Weak Rocks* provides guidance to practitioners involved in the design and implementation of open pit slopes particularly geotechnical engineers mining engineers geologists and other personnel working at operating mines

Advancing Culture of Living with Landslides Kyoji Sassa, Matjaž Mikoš, Yueping Yin, 2017-05-16 This book is open access under a CC BY 4.0 license This volume contains peer reviewed papers from the Fourth World Landslide Forum organized by the International Consortium on Landslides ICL the Global Promotion Committee of the International Programme on Landslides IPL University of Ljubljana UL and Geological Survey of Slovenia in Ljubljana Slovenia from May 29 to June 2 2017 The complete collection of papers from the Forum is published in five full color volumes This first volume contains the following Three forum lectures Background and Content of the Sendai Partnerships 2015-2025 Contribution from the signatory organizations of the Sendai Partnerships Landslide Dynamics ISDR ICL Landslide Interactive Teaching Tools LIT T Progress of the World Report on Landslides WRL International Programme on Landslides IPL Objects History and List of WCoE IPL projects UNESCO KU ICL UNITIWIN Network supporting IPL Landslides Journal of International Consortium on Landslides International Programme on Landslides IPL WCoEs and IPL Projects Landslides and Society Prof Kyoji Sassa is the Founding President of the International Consortium on Landslides ICL He is Executive Director of ICL and the Editor in Chief of International Journal Landslides since its foundation in 2004 Prof Matjaž Mikoš is the Forum Chair of the Fourth World Landslide Forum He is the Vice President of International Consortium on Landslides and President of the Slovenian National Platform for Disaster Risk Reduction Prof Yueping Yin is the President of the International Consortium on Landslides and the Chairman of the Committee of Geo Hazards Prevention of China and the Chief Geologist of Geo Hazard Emergency Technology Ministry of Land and Resources P R China IPL International Programme on Landslides is a programme of the ICL The programme is managed by the IPL Global Promotion Committee including ICL and ICL supporting organizations UNESCO WMO FAO UNISDR UNU ICSU WFEO IUGS and IUGG The IPL contributes to the United Nations International Strategy for Disaster Reduction and the ISDR ICL Sendai Partnerships 2015-2025

Geotechnical

Instrumentation and Monitoring in Open Pit and Underground Mining T. Szwedzicki, 2020-07-15 As mining operations increase in scale and mines go progressively deeper the geotechnical input into mine design is of importance This book covers topics in geotechnical instrumentation and monitoring including coverage of groundwater displacement and environmental monitoring

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

Latest Advancements in Underground Structures and Geological Engineering Adam Bezvijen, Walter Wittke, Harry Poulos, Hany Shehata, 2019-11-01 This book includes the best selected papers on the latest advancements in underground structures and geological engineering The ongoing population growth is resulting in rapid urbanization new infrastructure development and increasing demand for the Earth's natural resources e.g. water oil gas minerals This together with the current climate change and increasing impact of natural hazards implies that the engineering geology profession is called upon to respond to new challenges It is recognized that these challenges are particularly relevant in the developing and newly industrialized regions

Computational Geomechanics and Hydraulic Structures Sheng-Hong Chen, 2018-06-21 This book presents recent research into developing and applying computational tools to estimate the performance and safety of hydraulic structures from the planning and construction stage to the service period Based on the results of a close collaboration between the author and his colleagues friends students and field engineers it shows how to achieve a good correlation between numerical computation and the actual in situ behavior of hydraulic structures The book's heuristic and visualized style disseminates the philosophy and road map as well as the findings of the research The chapters reflect the various aspects of the three typical and practical methods the finite element method the block element method the composite element method that the author has been working on and made essential contributions to since the 1980s This book is an advanced continuation of *Hydraulic Structures* by the same author published by Springer in 2015

Flyrock in Surface Mining Autar K. Raina, 2023-07-24 This book provides a comprehensive understanding of historical and recent research with a critical review of several aspects of the flyrock phenomenon along with classification of pertinent literature This puts flyrock into proper perspective and develops a comprehensive regime for flyrock prediction and control It also addresses the blast danger zone demarcation based on scientific understanding in comparison to the consequence based approach supported by pertinent case studies Features Discusses exclusive material on flyrock in surface mining Presents comprehensive and critical review of the flyrock phenomenon Reviews prediction and control mechanisms in vogue with scientific and risk based definitions of blast danger zone Provides new insights into the flyrock definitions

prediction and prevention along with the research approach to the problem Includes Indian case studies and summarize global data available in the published domain This book is aimed at researchers and graduate students in mining and civil engineering engineering geology and blasting **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 th **Fracturing in Deep Boreholes** Georg Maximilian Stockinger,2022-02-17 The development of the base load capable climate friendly and practically inexhaustible source of geothermal energy represents an important pillar of the energy supply of the future If it were possible to expand geothermal energy production accordingly Germany could generate 100% of its energy in a climate neutral manner by 2050 The joint research project Dolomitkluft funded by the German Federal Ministry for Economic Affairs and Energy from 2016 to 2018 aims to establish a new and improved reservoir model for the Upper Jurassic carbonates of the Northern Alpine Foreland Basin for deep geothermal energy Emerged from this project the dissertation by Mr Stockinger geomechanically and numerically characterizes the deep geothermal reservoir in carbonate rocks limestones and dolomites of the Upper Jurassic in the Northern Alpine Foreland Basin in over 4000 m depth This book specifically addresses fracture initiation propagation and hydraulic conductivity around a borehole and their controlling factors such as the in situ stress the existing discontinuity network and the geomechanical rock properties Mr Stockinger has thus successfully addressed the most important aspects for the retrievability of deep geothermal energy at its point of origin namely the deep borehole

Industrial Communication Technology Handbook, Second Edition Richard Zurawski,2014-11-07 Featuring contributions from major technology vendors industry consortia and government and private research establishments the Industrial Communication Technology Handbook Second Edition provides comprehensive and authoritative coverage of wire and wireless based specialized communication networks used in plant and factory automation automotive applications avionics building automation energy and power systems train applications and more New to the Second Edition 46 brand new chapters and 21 substantially revised chapters Inclusion of the latest most significant developments in specialized communication technologies and systems Addition of new application domains for specialized networks The Industrial Communication Technology Handbook Second Edition supplies readers with a thorough understanding of the application specific requirements for communication services and their supporting technologies It is useful to a broad spectrum of professionals involved in the conception design development standardization and use of specialized communication networks as well as academic institutions engaged in engineering education and vocational training *Integrating Innovations of Rock Mechanics* R.J. Rocca,R.M. Flores,A.O. Sfriso,2015-12-11 In November 2015 Buenos Aires Argentina became the location of several important events for geo professionals with the simultaneous holding of the 8th South American Congress

on Rock Mechanics SCRM the 15th Pan American Conference on Soil Mechanics and Geotechnical Engineering XV PCSMGE and the 6th International Symposium on Deformation Characteristics of Geomaterials as well as the 22nd Argentinean Congress of Geotechnical Engineering CAMSIGXXII This synergy brought together international experts researchers academics professionals and geo engineering companies in a unique opportunity to exchange ideas and discuss current and future practices in the areas of soil mechanics and rock mechanics and their applications in civil energy environmental and mining engineering This book presents the proceedings of the 8th South American Congress on Rock Mechanics SCRM Topics covered include rock mechanics rock engineering natural resources mining mechanics geology and engineering Approximately 60% of the contributions are in English and the remaining 40% of the contributions are in either Spanish or Portuguese

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Table of Contents Isrm Symposium Eurock Ninety Two Rock Characterization

1. Understanding the eBook Isrm Symposium Eurock Ninety Two Rock Characterization
 - The Rise of Digital Reading Isrm Symposium Eurock Ninety Two Rock Characterization
 - Advantages of eBooks Over Traditional Books
2. Identifying Isrm Symposium Eurock Ninety Two Rock Characterization
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Isrm Symposium Eurock Ninety Two Rock Characterization
 - User-Friendly Interface
4. Exploring eBook Recommendations from Isrm Symposium Eurock Ninety Two Rock Characterization
 - Personalized Recommendations
 - Isrm Symposium Eurock Ninety Two Rock Characterization User Reviews and Ratings
 - Isrm Symposium Eurock Ninety Two Rock Characterization and Bestseller Lists
5. Accessing Isrm Symposium Eurock Ninety Two Rock Characterization Free and Paid eBooks
 - Isrm Symposium Eurock Ninety Two Rock Characterization Public Domain eBooks
 - Isrm Symposium Eurock Ninety Two Rock Characterization eBook Subscription Services
 - Isrm Symposium Eurock Ninety Two Rock Characterization Budget-Friendly Options
6. Navigating Isrm Symposium Eurock Ninety Two Rock Characterization eBook Formats

- ePub, PDF, MOBI, and More
- Isrm Symposium Eurock Ninety Two Rock Characterization Compatibility with Devices
- Isrm Symposium Eurock Ninety Two Rock Characterization Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Isrm Symposium Eurock Ninety Two Rock Characterization
 - Highlighting and Note-Taking Isrm Symposium Eurock Ninety Two Rock Characterization
 - Interactive Elements Isrm Symposium Eurock Ninety Two Rock Characterization
- 8. Staying Engaged with Isrm Symposium Eurock Ninety Two Rock Characterization
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Isrm Symposium Eurock Ninety Two Rock Characterization
- 9. Balancing eBooks and Physical Books Isrm Symposium Eurock Ninety Two Rock Characterization
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Isrm Symposium Eurock Ninety Two Rock Characterization
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Isrm Symposium Eurock Ninety Two Rock Characterization
 - Setting Reading Goals Isrm Symposium Eurock Ninety Two Rock Characterization
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Isrm Symposium Eurock Ninety Two Rock Characterization
 - Fact-Checking eBook Content of Isrm Symposium Eurock Ninety Two Rock Characterization
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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