



# Rock Burst

**Wilson Blake, D. G. F. Hedley**



## **Rock Burst:**

**Rockbursts** Wilson Blake,D. G. F. Hedley,2003 Using a series of case studies this essential reference documents the experiences of 15 of the most rockburst prone mines in the U S and Canada over the last century The book provides an historical analysis of rockburst activity along with state of the art strategies for anticipating and preventing this dangerous and disruptive phenomenon

**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

**Rockburst Evolutionary Process and Energy Dissipation**

**Characteristics** Dazhao Song,Xueqiu He,Enyuan Wang,Zhenlei Li,Jie Liu,2019-04-27 This book investigates the evolution process of rockburst based on the energy dissipation theory and proposes appropriate active prevention and control technologies It discusses the electromagnetic radiation EMR generated by coal rock fractures as a measurement of the amount of dissipated energy and the use of EMR to experimentally observe the time domain characteristics of energy dissipation during coal rock failure processes It then proposes the concept of the rockburst activity domain system RADS establishes a dynamic pressure model of rockburst and describes the energy criterion for rockburst instability Lastly it presents two waterjet cutting based cases of pressure relief and rockburst prevention The book serves as a reference resource for mine safety workers engineering technicians scientists graduate students and undergraduates engaged in

research on dynamic hazards such as rockburst      **Rock Burst Research and the Coeur D'Alene District** Terry McMahon,1988      **Rock Burst Research at the Galena Mine, Wallace, Idaho** Wilson Blake,1971      **Rockburst in Extra-Thick Coal Seam Mining: Mechanism and Prevention** Sitao Zhu,Fuxing Jiang,Xiufeng Zhang,Jinhai Liu,2024-08-02 This book provides a detailed introduction to the mechanism of rockburst in extremely thick coal seam mining and explores the mechanical mechanism on why the critical depth of rockburst in extremely thick coal seam mining is significantly smaller than that in thin to thick coal seams it also proposes targeted monitoring warning and treatment technologies The prevention and control of coal mine rockburst is a global problem attracting engineers and scientists from various disciplines such as mining geology geophysics and civil engineering to conduct research This book provides multiple case studies of rockburst accidents in mining of ultra thick coal seams and provides a detailed analysis of the mechanisms and treatment technologies of each rockburst accident It aims at graduate students researchers and on site engineers who are interested in the mechanism of rockburst occurrence monitoring early warning and treatment technology The translation was done with the help of artificial intelligence The present version has been revised technically and linguistically by the authors in collaboration with a professional translator      **Rock Preconditioning to Prevent Rock Bursts** William J. Karwowski,William C. McLaughlin,Wilson Blake,1979      *Advances in Neural Network Research and Applications* Zhigang Zeng,Jun Wang,2010-05-10 This book is a part of the Proceedings of the Seventh International Symposium on Neural Networks ISSN 2010 held on June 6-9 2010 in Shanghai China Over the past few years ISSN has matured into a well established premier international symposium on neural networks and related fields with a successful sequence of ISSN series in Dalian 2004 Chongqing 2005 Chengdu 2006 Nanjing 2007 Beijing 2008 and Wuhan 2009 Following the tradition of ISSN series ISSN 2010 provided a high level international forum for scientists engineers and educators to present the state of the art research in neural networks and related fields and also discuss the major opportunities and challenges of future neural network research Over the past decades the neural network community has witnessed significant breakthroughs and developments from all aspects of neural network research including theoretical foundations architectures and network organizations modeling and simulation empirical studies as well as a wide range of applications across different domains The recent developments of science and technology including neuroscience computer science cognitive science nano technologies and engineering design among others has provided significant new understandings and technological solutions to move the neural network research toward the development of complex large scale and networked brain like intelligent systems This long term goals can only be achieved with the continuous efforts from the community to seriously investigate various issues on neural networks and related topics      **Assessment and Prevention of Failure Phenomena in Rock Engineering** O. Aydan,A.G. Pasamehmetoglu,T. Kawamoto,B.N. Whittaker,2022-04-26 First published in 1993 This volume is a collection of papers addressing the issue of the failure of rock engineering structures This phenomenon occurs in different forms

depending on the geometry of structure material properties of intact rock structure of rock mass environmental conditions and initial state of stress      *Evolution, Monitoring and Predicting Models of Rockburst* Chunlai Wang, 2017-12-13 This open access book focuses on investigating predicting precursor information and key points of rockburst in mining engineering through laboratory experiment theoretical analysis numerical simulation and case studies Understanding the evolution patterns for the microstructure instability of rock is a prerequisite for rockburst prediction The book provides a guide for readers seeking to understand the evolution patterns for the microstructure of rock failure the predicting key point of rock failure and the rockburst predicting model It will be an essential reference to understand mechanism of rockburst and sheds new light on dynamic disasters prediction Chapters are carefully developed to cover 1 The evolution patterns for the microstructure instability of rock 2 Rockburst hazard monitoring and predicting criterion and predicting models The book addresses the issue with a holistic and systematic approach that investigates the occurrence mechanism of rockburst based on the evolution patterns for the microstructure of rock failure and establishes the predicting model of rockburst This book will be of interest to researchers of mining engineering rock mechanics engineering and safety engineering      **Rock Stress and Earthquakes** Furen Xie, 2010-07-29 The evaluation of in situ rock stress is not only important in the exploration and engineering involving rock masses for mining hydropower tunneling oil and gas production and stone quarrying but also in the geodynamics and earthquake prediction The methods of determining these stresses for shallow crust in the engineering practice including      *Rockbursts and Seismicity in Mines* 93 R. Paul Young, 1993-01-01 These proceedings include the latest developments in research and practice in the area of mining induced seismicity Three themes are explored strong ground motion and rockburst hazard mechanics of seismic events and stochastic methods and monitoring of seismicity and geomechanical modelling      **A Case History of a Major Rock Burst** Fred Leighton, 1982      **Transit Development in Rock Mechanics** Meifeng Cai, Yang Gengshe, Jin'an Wang, 2014-10-20 Transit Development in Rock Mechanics Recognition Thinking and Innovation contains 150 papers presented at the 3rd ISRM International Young Scholars Symposium on Rock Mechanics 8 10 November 2014 Xi'an China The volume focusses on the transitional development in rock mechanics research from surface to underground mining and from shallow to a deep rock excavations and on the transition of knowledge thinking and innovation from pioneers to the young generation The contributions cover a wide range of topics Field investigation and measurements Physical and mechanical properties of rocks Analysis and design methods for rock engineering Numerical and physical modeling Multi fields coupling analysis methods Rock slope tunnel and foundation engineering Monitoring and control of rock pressure in underground engineering Dynamic rock mechanics and blasting Support and reinforcement techniques for geotechnical engineering Prediction and control of artificial hazards with excavation in rock Transit Development in Rock Mechanics Recognition Thinking and Innovation will be invaluable to engineers and academics interested or involved in rock mechanics geotechnical engineering mine engineering and

underground engineering The Symposium was organized by the Commission on Education of International Society for Rock Mechanics and Xi'an University of Science and Technology and sponsored by the International Society for Rock Mechanics ISRM and the Chinese Society for Rock Mechanics and Engineering CSRME *Physics and Seismicity of Rocks* Longjun Dong, Guoyang Fu, Wei Wu, 2021-11-30

**Geological Disasters in Deep Engineering Mechanism, Warning and Risk mitigation** Guang-Liang Feng, Fengqiang Gong, Chi Zhang, Shibing Huang, 2023-06-15 With the increasing demand for infrastructure construction as the global economy progresses the need for exploration and utilization of deep underground space becomes more crucial Various deep underground projects are planned are under construction and have been built to encounter great construction challenges due to the complex geo environment such as strong tectonic movement fragile geo environment and complex thermo hydro mechanical chemical conditions These deep engineering projects could be endangered by different kinds of geological disasters such as intense rockburst large deformation strong water inrush and large scale collapse which might result in massive loss of life and economic damage during the construction of deep underground projects It is necessary to take proactive measures to ensure that the development of deep engineering projects is risk informed and sustainable Efforts are being called for strengthening science and technology innovation and cooperation in geological disaster mitigation and sustainable development during the construction of deep engineering projects It is paramount to use new technologies and international cooperation to jointly tackle the geological disasters risks and achieve sustainable development To mitigate the risk of geological disaster in deep engineering under the complicate geo environment the mechanism of the formation and evolution of geological disasters in deep engineering needs to be understood The testing monitoring simulation risk assessment and early warning methods for geological disaster in deep engineering are also needed urgently New theories methods and techniques related to the mechanism warning and risk mitigation of geological disasters in deep engineering will be extremely helpful for the construction safety of deep engineering

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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

**Geomechanics and Geodynamics of Rock Masses - Volume 2** Vladimir Litvinenko, 2018-05-20 This book is Volume 2 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

**Tunnelling in Weak Rocks** Bhawani Singh, R K Goel, 2006-09-26 Vast knowledge has been developed in the area of tunnelling in weak rocks over the years and this book bridges an important gap by bringing all the information together for the benefit of the tunnelling Industry In particular tunnelling in poor conditions is a huge challenge for engineers and designers and this book tackles all typical problems headon Topics covered include classification approach design approaches for site specific grounds a new invention on shielded tunnel boring machine case histories tunnel mechanics risk engineering and management culture Based on extensive field research experiences in Himalayan region and Alps Exclusive chapters on tunnelling hazards squeezing ground conditions a full detailed case study swelling ground conditions critical state rock mechanics etc Supported by over 180 figures and 90 tables of data and test examples with solutions

**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



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