

Strata Mechanics in Coal Mining

Contributors: Wei Yin, Zhixi Chen, et al.



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Sebastian Brünink



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Strata Mechanics in Coal Mining M. Jeremic, 1985-01-01 **Strata Mechanics in Coal Mining** Wei Yin, Zhiwei Chen, 2018-04 Strata Mechanics I.W. Farmer, 2013-10-22 The papers in this volume provide a unified approach to the design of underground structures in stratified coal and mineral deposits They include examples of underground structure design in coal and evaporite mines and case histories of performance of underground structures **The Theory of Strata Mechanics** H. Gil, 2013-10-22 During the last thirty years the increasing need for extracting coal from new mining fields especially from unmined protective pillars and seams that are threatened with rock bursts and rock gas eruptions has accelerated the development of research in the fundamental mining discipline known as rock mass mechanics or geomechanics Generally rock mass mechanics is concerned with rock mass movements and with the phenomena accompanying them Extensive theoretical laboratory and in situ investigations have resulted in considerable achievements in the field of rock mass mechanics It is impossible to include all these achievements in a single monograph and therefore in the present book the author has attempted to construct a synthetic mathematical description of the rock mass movements and of the strain and stress state induced by mining in particular when extracting mineral deposits Ground Mechanics in Hard Rock Mining M.L. Jeremic, 2020-11-18 This book illustrates the advantages of the application of ground mechanic concepts to hard rock mining It examines the ground stability for various mine layouts using specific case histories The book deals with ground support reinforcement and stabilization of mining structures *Principles and Practices of Modern Coal Mining* R. D. Singh, 2005 Principles And Practices Of Modern Coal Mining Is A Comprehensive Text Book On The Theory And Practice Of Coal Mining It Highlights The Principles And Describes The Modern Techniques Of Surface And Underground Coal Mining Citing Examples From India And Abroad It Deals With The Exploitation Of Coal Seams Of Different Thicknesses And Dips Occurring In A Variety Of Conditions Emerging Technologies Of Coal Mining And Their Applications Have Also Been Amply Discussed After An Introductory Chapter Tracing The History Of Coal Mining And The Development Of Coal Mining Industry In Different Principal Coal Producing Countries And Highlighting The Emerging Technologies Of Coal Mining The World Over The Book Offers A Chapter By Chapter Discussion Of The State Of Art Of Underground And Surface Coal Mining Technology Every Aspect Of Science Of Coal Mining From Geological Occurrence And Exploration To Planning And Exploitation Of Coal Seams Including Management Of Environment Has Been Scrutinised By The Author For The Professionals In The Coal Industry As Well As To The Planners Researchers And Students Of Mining Engineering The Book Will Be A Useful Reference

Coal Mine Structures I.W. Farmer, 2012-12-06 Coal Mine Structures is based on a six year study carried out at the University of Newcastle upon Tyne between 1976 and 1982 and financed by the National Coal Board and the European Coal and Steel Community Projects 7220 ACj806 and 7220 ACj814 into the behaviour of under ground openings in British coal mines The original work has been expanded to include other relevant British and international data How ever it remains

deliberately a personal view based on a specific albeit broad research programme It does not pretend to be a complete description of the behaviour of shafts tunnels rooms pillars and long wall excavations Nor does it set out to provide a manual for design The specific aim is to show often through consideration of quite detailed laboratory and field data how the observed performance of some under ground structures during mining can be explained by the deformation characteristics of the rocks which surround them The work is based on observatiollB by many engineers working for the National Coal Board s Mining Research and Development Establishment and by research associates and postgraduate students at the University of Newcastle upon Tyne I am grateful to them all but I am particularly indebted to Dr A H Wilson and Mr M J Bell of the National Coal Board to Dr P F R Altounyan Dr P Garritty Dr P Holmes and Dr P D Shelton formerly of the University of Newcastle upon Tyne to Dr R N

Ground Engineering - Principles and Practices for Underground Coal Mining J.M. Galvin, 2016-02-02 This book teaches readers ground engineering principles and related mining and risk management practices associated with underground coal mining It establishes the basic elements of risk management and the fundamental principles of ground behaviour and then applies these to the essential building blocks of any underground coal mining system comprising excavations pillars and interactions between workings Readers will also learn about types of ground support and reinforcement systems and their operating mechanisms These elements provide the platform whereby the principles can be applied to mining practice and risk management directed primarily to bord and pillar mining pillar extraction longwall mining sub surface and surface subsidence and operational hazards The text concludes by presenting the framework of risk based ground control management systems for achieving safe workplaces and efficient mining operations In addition a comprehensive reference list provides additional sources of information on the subject Throughout a large variety of examples show good and bad mining situations in order to demonstrate the application or absence of the established principles in practice Written by an expert in underground coal mining and risk management this book will help students and practitioners gain a deep understanding of the basic principles behind designing and conducting mining operations that are safe efficient and economically viable Provides a comprehensive coverage of ground engineering principles within a risk management framework Features a large variety of examples that show good and poor mining situations in order to demonstrate the application of the established principles in practice Ideal for students and practitioners About the author Emeritus Professor Jim Galvin has a relatively unique combination of industrial research and academic experience in the mining industry that spans specialist research and applied knowledge in ground engineering mine management and risk management His career encompasses directing ground engineering research groups in South Africa and Australia practical mining experience including active participation in the mines rescue service and responsibility for the design operation and management of large underground coal mines and for the consequences of loss of ground control as a mine manager appointments as Professor and Head of the School of Mining Engineering at the University of New South

Wales and safety advisor to a number of Boards of Directors of organisations associated with mining Awards Winner of the ACARP Excellence Research Award 2016 The Australian Coal Industry s Research Program selects recipients to receive ACARP Research and Industry Excellence Awards every two years The recipients are selected on the recommendation of technical committees They are honored for achievement of a considerable advance in an area of importance to the Australian coal mining industry An important criterion is the likelihood of the results from the project being applied in mines Winner of the Merv Harris Award from the Mine Managers Association of Australia The Merv Harris Award is named for Merv Harris who donated money to be invested for a continuing award in 1988 With the award the Mine Managers Association of Australia honors members of the Association who demonstrate technical achievement in the Australian Coal Mining Industry The first award was granted in 1990 since then only two people have received this honor The book has received the following awards AGS Australian Geomechanics Society congratulates Dr Galvin for these awards *Fossil Energy Update* ,1982

Rock Support in Mining and Underground Construction P.K. Kaiser,D. McCreath,1992-01-01 An up to date record of the most recent developments and thinking in the methods problems and challenges in the field of rock support including cable bolting shotcrete in mining support in rockburst prone ground and support design analysis and applications

Guidelines for Open Pit and Waste Dump Closure Phil de Graaf,Geoff Beale,Trevor Carter,2025-05-01 Guidelines for Open Pit and Waste Dump Closure provides a benchmark reference for geotechnical and hydrogeological professionals and other closure stakeholders involved in assessing and implementing the closure of open pits and waste dumps It defines a state of best practice geotechnical and hydrological pathway that reflects current industry wide experience considers the perspectives of the operator regulator and community and encompasses closure planning design implementation and monitoring Written by industry experts and practitioners Guidelines for Open Pit and Waste Dump Closure is the sixth in a series of books developed by the Large Open Pit LOP Project Focused on the technical challenges related to geology geotechnical engineering water and geochemistry it covers the key aspects that relate to closure of open pits and waste dumps including planning long term physical and chemical stability and post mining land use PMLU The book also includes workflows that provide clarity on geotechnical and hydrogeological assessments relating to closure planning definition of pragmatic objectives and measures of success implementation and monitoring for open pits and waste dumps for closure and how these may interact with adjacent land uses Drawing on global lessons learned on mine closure over a period of more than 30 years this comprehensive guide uses industry experience to set out a road map to closure and potentially relinquishment of open pits and waste dumps It will be invaluable for mine closure practitioners corporate planners mine management mining engineers and technical staff mine stakeholders and regulators **Ancient Underground Opening and Preservation** Zhifa Yang,Chikaosa Tanimoto,2015-10-01 Ancient Underground Opening and Preservation contains 59 papers presented at the International Symposium on Scientific Problems and Long term Preservation of Largescale Ancient

Underground Engineering Longyou China 23-26 October 2015 The contributions focus on scientific and technical issues related to long term preservation of large scale anc

Mining Science and Technology 1996 T.S. Golosinski, Guo Yuguang, 1996-10-31 A collection of symposium papers covering all major aspects of mining and related disciplines Topics include mining science environmental and safety technology mine control automation and mechanization mining geomechanics mine construction and engineering and coal processing

Engineered Rock Structures in Mining and Civil Construction Raghu N. Singh, Ajoy K. Ghose, 2006-01-26 The book collates and sifts a vast amount of literature on the design of structures in the mining and construction industries to synthesize a comprehensive text on the subject area The focus is on the application of theory to practice and the book is richly illustrated with worked out examples The presentation is lucid and based on the extensive professional teaching and research experience of the authors The text seeks to address the key issues of design of engineered structures in or on rock The book will serve as a standard text for undergraduate courses in mining civil engineering and engineering geology

Rock Mechanics and Strata Control in Mining and Geotechnical Engineering International Mining Tech '95 Symposium (Beijing.), 1995

Project Planning and Project Success Pedro Serrador, 2014-11-24 Project planning is generally accepted as an important contributor to project success However is there research that affirms the positive impact of project planning and gives guidance on how much effort should be spent on planning To answer these questions this book looks at current literature and new research of this under studied area of project management The author presents his findings from an extensive review of project planning literature that covers more than 270 sources He also discusses new research that analyzes data from more than 1 300 global projects The book confirms that the time spent on planning activities reduces risk and significantly increases the chances of project success It also concludes that there can be too much planning and shows that the optimum ratio of planning to effort is 25% The book examines the impact of project planning on different industries It discusses research in the construction and information technology IT industries and presents a case study of how to plan and track a software development project The book also looks at the impact of geography on project planning and success Intended as a basic tool in the library of any project manager or general manager this book brings to light project planning techniques and information that have never been published previously It is an important resource on how to plan projects properly and propel your career forward

Mine Planning and Equipment Selection 1995 J. Hadjigeorgiou, A.K. Mehmotra, R. Poulin, R.K. Singhal, 1995-10-31 This text presents about 150 papers based on an international symposium on mine planning and equipment selection held in Canada in 1995 Coverage includes design and planning of surface and underground mines surface mining and the environment tailings disposal and slope stability analysis

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 **NexGen Technologies for Mining and Fuel Industries (Volume I and II)** Pradeep K. Singh,V.K. Singh,A.K. Singh,D. Kumbhakar,M.P. Roy,2017-03-06 The papers in these two volumes were presented at the International Conference on NexGen Technologies for Mining and Fuel Industries NxGnMiFu 2017 in New Delhi from February 15 17 2017 organized by CSIR Central Institute of Mining and Fuel Research Dhanbad India The proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies The major issues focused on are Innovative Mining Technology Rock Mechanics and Stability Analysis Advances in Explosives and Blasting Mine Safety and Risk Management Computer Simulation and Mine Automation Natural Resource Management for Sustainable Development Environmental Impacts and Remediation Paste Fill Technology and Waste Utilisation Fly Ash Management Clean Coal Initiatives Mineral Processing and Coal Beneficiation Quality Coal for Power Generation and Conventional and Non conventional Fuels and Gases This collection of contemporary articles contains unique knowledge case studies ideas and insights a must have for researchers and engineers working in the areas of mining technologies and fuel sciences Information Circular ,1925

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