



J.M. Galvin

Ground Engineering

Principles and Practices
for Underground Coal Mining

ACARP

 Springer

Ground Engineering Principles And Practices For Underground Coal Mining

Yiming Zhao, Nong Zhang



Ground Engineering Principles And Practices For Underground Coal Mining:

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 Ground Engineering Yiming Zhao,Nong Zhang,2018-04 *Advances in Coal Mine Ground Control* Syd S. Peng,2017-05-25 *Advances in Coal Mine Ground Control* is a comprehensive text covering all recent advances in coal mine ground control the most advanced subsystem of the rapidly advancing coal mining systems This complete resource is written by Professor Syd Peng who alongside leading experts from the world s major coal producing countries has contributed extensively to the understanding of subsidence from underground coal mining longwall operations and ground control in underground mines Syd and the team of contributors bring together key advances from the past decade into one comprehensive resource that is accessible to all those studying researching and working in the mining industry This book is an essential text for undergraduate and graduate students of mining engineering and related programs and a must have reference for mining civil and geotechnical engineers Written and edited by the world s leading experts on ground control in coal mining Covers all aspects of ground control practices in coal mines Focuses on advances over the past decade equipping readers with the most up to date knowledge regarding current research and practices in the field Strength, Cuttability, and Workability of Coal Nuh Bilgin,Hanifi Copur,Cemal Balci,Deniz Tumac,2018-12-18 World coal production will increase up to 2040 and world energy consumption will be very much dependent on coal For a better planning of coal mining operations it is essential to know the strength cuttability and workability of coal which are interrelated The main objective of the book is to combine the research studies and compile the book oriented to the coal industry research students practicing engineers and coal mine panning teams Key Features Covers all the subjects related to coal properties mining and excavation in one book Presents a summary of physical and mechanical properties of coal belonging to a wide range of countries Includes typical examples of using physical and mechanical of coal in mine planning and in its industrial applications Explains use of cuttability characteristics of coal Describes planning of coal production using ploughs shearers and surface miners Green Coal Mining Techniques 2020 A.J.S. (Sam) Spearing,2020-12-15 Coal mining continues to make advances especially in the areas of safety and environmental protection as a result of mining This book contains nine peer reviewed articles on green coal mining that address most of the important issues associated with improving coal mining These issues include the protection of water above coal mines both surface and ground water and the subsidence that occurs during and after mining with methods to limit it and methods of rehabilitation Additional issues include mine entry and production area support and methods to control gas emissions **Proceedings of the 37th International Conference on Ground Control in Mining** Brijes Mishra,Ted Klemetti,Heather Lawson,Michael Murphy,Kyle Perry,2018-07-16 The International Conference on Ground Control in Mining has a rich history of advancing ground control techniques and knowledge It provides a unique platform for researchers regulators consultants

manufacturers and mine operators to present and exchange challenging industry topics as well as to expedite solutions to ground control problems that require immediate attention This proceedings from the 37th International Conference is no exception It includes 47 peer reviewed research papers from industry experts covering topics of importance for today and the future *Deep Rock Mass Engineering: Excavation, Monitoring, and Control* Zhiqiang Yin,Yilin Gui,Kun Du,2022-11-14

Proceedings of the International Conference on Innovations for Sustainable and Responsible Mining

Xuan-Nam Bui,Changwoo Lee,Carsten Drebenstedt,2020-10-25 This volume gathers the latest advances innovations and applications in the field of mining geology and geo spatial technologies as presented by leading researchers and engineers at the International Conference on Innovations for Sustainable and Responsible Mining ISRM held in Hanoi Vietnam on October 15 17 2020 The contributions cover a diverse range of topics including mining technology drilling and blasting engineering tunneling and geotechnical applications mineral processing mine management and economy environmental risk assessment and management mining and local development mined land rehabilitation water management and hydrogeology regional Geology and tectonics spatial engineering for monitoring natural resources and environment change GIS and remote sensing for natural disaster monitoring risk mapping and revisualization natural resources monitoring and management mine occupational safety and health Selected by means of a rigorous peer review process they will spur novel research directions and foster future multidisciplinary collaborations *Rock Dynamics and Applications 3* Charlie Li,Xing Li,Zong-Xian Zhang,2018-06-18 *Rock Dynamics Experiments Theories and Applications* is a collection of scientific and technical papers presented at the Third International Conference on Rock Dynamics and Applications RocDyn 3 Trondheim Norway 26 27 June 2018 The papers in the book reflect the recent developments in experiment and theory as well as engineering applications of rock dynamics Rock dynamics studies the response of rock and rock masses under dynamic loading and during the state transition from static loading to kinetic movement It also includes the study of engineering countermeasures to dynamic instability of rock and rock masses The topics in the book include Dynamic theories Numerical simulation Propagation of stress waves Dynamic tests of rock Stability of underground openings under dynamic loading Rockburst Seismic monitoring Dynamic rock support Blasting Earthquake related rock structure damage etc Applications such as rockburst dynamic rock support seismic monitoring blasting and earthquake related rock structure damage are paid special attention in *Rock Dynamics Experiments Theories and Applications* The papers from specialists both from mining and tunnelling branches discuss commonly interested dynamic issues Their experience and knowledge in the application of rock dynamics are extremely valuable for all academics engineers and professionals who work with rock dynamics *Frontiers of Performability Engineering* Durga Rao Karanki,2024-03-23 This book presents recent advances in performability analysis methods and their applications in different fields It covers various aspects of performability such as quality reliability maintainability availability safety security and sustainability that are essential in complex engineering systems such as

electrical grids chemical plants naval defense systems structures nuclear reactors railways etc This book is a collection of research works contributed by the former students of Professor KB Mishra who is a renowned researcher in reliability engineering This book is useful for the researchers and professionals working in the area of performability engineering

ICITID 2021 Rizqi Prastowo, Heri Nurdianto, 2021-10-20 The 2nd International Conference on Industrial Technology and Information Designs ICITID shortly on 30 August 2021 at Institut Teknologi Nasional Yogyakarta Sleman Yogyakarta Indonesia The Conference adopts a timely theme Industry 4.0 Transfer and Capacity of Technopreneur As we know that the key objective of Industry 4.0 is to drive manufacturing forward to be faster more efficient and customer centric while pushing beyond automation and optimization to discover new business opportunities and models On the other hand a technopreneur is an entrepreneur who understands technology who is creative innovative dynamic and dares to be different So The Fourth Industrial Revolution has opened a wide gate of opportunities to us as technopreneurs The goals of ICITID 2021 are to bring together experts in the field of information technology and industrial design so that we can realize together the potential of technology in industry 4.0 around Asia Pacific nations particularly Indonesia

Developments in Ground Control in Mining 1981-2020 Syd S. Peng, 2022-06-03 The best of ground control technology 40 years in the making *Developments in Ground Control* summarizes the objectives methodology used and major conclusions reached from papers presented and published in the International Conference on Ground Control in Mining ICGCM proceedings from 1981 to 2020 Because the subject areas of the papers published in the proceedings are so broad ranging from accident training and coal rock bursts to geology pillar multiseam mining in situ stresses roof falls and roof supports to surface subsidence the papers were grouped into 13 aggregate topics and addressed separately in 13 book chapters by 13 authors from 4 countries These book chapters are a fresh look at the topics providing new insights sourcing older papers and summarizing data This is an enormous help for those seeking information on ground control There were 1 795 papers in the 40 years of ICGCM proceedings in more than 40 ground control topical areas It would certainly be very time consuming if not impossible to find the right papers of interest in a timely manner This book makes it easy for interested people to find the progress application and achievements of certain techniques from the past 40 years and how they affected the field of ground control and the world mining industry in particular the United States Generally speaking most researchers tend to favor recent developments when performing a literature search ignoring or considering old papers outdated In contrast over the last 40 years most research findings for a specific topic in ICGCM received continuing attention for subsequent development or repeated citations if applications were successful

SME Mining Engineering Handbook, Third Edition Peter Darling, Society for Mining, Metallurgy, and Exploration (U.S.), 2011 This third edition of the SME Mining Engineering Handbook reaffirms its international reputation as the handbook of choice for today's practicing mining engineer It distills the body of knowledge that characterizes mining engineering as a disciplinary field and has subsequently helped to inspire and inform generations of mining professionals

Virtually all of the information is original content representing the latest information from more than 250 internationally recognized mining industry experts Within the handbook s 115 thought provoking chapters are current topics relevant to today s mining professional Analyzing how the mining and minerals industry will develop over the medium and long term why such changes are inevitable what this will mean in terms of challenges and how they could be managed Explaining the mechanics associated with the multifaceted world of mine and mineral economics from the decisions associated with how best to finance a single piece of high value equipment to the long term cash flow issues associated with mine planning at a mature operation Describing the recent and ongoing technical initiatives and engineering developments in relation to robotics automation acid rock drainage block caving optimization or process dewatering methods Examining in detail the methods and equipment available to achieve efficient predictable and safe rock breaking whether employing a tunnel boring machine for development work mineral extraction using a mobile miner or cast blasting at a surface coal operation Identifying the salient points that dictate which is the safest most efficient and most versatile extraction method to employ as well as describing in detail how each alternative is engineered Discussing the impacts that social and environmental issues have on mining from the pre exploration phase to end of mine issues and beyond and how to manage these two increasingly important factors to the benefit of both the mining companies and other stakeholders

Annual Report of the Secretary of Labor Under the Federal Mine Safety and Health Act of 1977 United States. Mine Safety and Health Administration,1980 *The Budget of the United States Government* United States,United States. Bureau of the Budget,1970 *Energy Research Abstracts* ,1985 **Message of the President of the United States Transmitting the Budget for the Service of the Fiscal Year Ending ...** United States,1965 Congressional Record United States. Congress,1969 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 **Office of Surface Mining Annual Report** United States. Office of Surface Mining Reclamation and Enforcement,1992 *Technical Paper* United States. National Resources Planning Board,1941

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