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# **Rocks rheology in the stability of underground mining works**

Study case: Sedimentary rocks from Jiu Valley  
basin, Romania

VI  
BACKGROUND

# Stability In Underground Mining

**Wolfgang Guggemos**



## **Stability In Underground Mining:**

**Rock Mass Stability Around Underground Excavations in a Mine** Yan Xing, Pinnaduwa Kulatilake, Louis Sandbak, 2019-11-20 Stability of underground excavations is of great importance to an operating mine because it ensures the safety of the working people and operating equipment and successful ore production Due to the complex geological conditions and mine constructions and variability and uncertainty in estimating rock mass mechanical properties the assessment of rock mass stability for an underground mine is extremely challenging and difficult Tackling of this difficult problem is not covered in detail in any of the textbooks currently available in the rock mechanics literature This monograph aims to cover this gap in the rock mechanics and rock engineering field This monograph provides detailed procedures for the stability assessment and support design for an underground mine case study It covers the background of the mine site including the monitored deformation data the state of art methodologies for the stability analysis of rock masses around underground excavations performed laboratory tests estimation of the rock mass properties a brief theory and background of the 3 D Distinct Element Code 3DEC and numerical modeling of underground rock mass stability including investigation of the effectiveness of rock supports The monograph is an excellent reference for the senior undergraduates graduate students researchers and practitioners who work in the Underground Rock Mechanics and Rock Engineering area in the Mining Engineering Civil Geotechnical Engineering and DEM Distinct Element Method Numerical modeling First International Conference on Stability in Underground Mining, August 16, 17, 18, 1982, Vancouver, British Columbia, Canada C. O. Brawner, 1983 **Second International Conference on Stability in Underground Mining** A. B. Szilski, C. O. Brawner, 1984 Underground Mining Methods W. A. Hustrulid, Richard L. Bullock, 2001 Reflecting the highly international and diverse nature of the industry a series of mining case studies covers the commodity range from iron ore to diamonds as extracted by operations located in all corners of the world Industry experts have contributed 77 chapters Geomechanical Processes during Underground Mining Volodymyr Bondarenko, Iryna Kovalevs'ka, Mykhaylo Illiashov, Genadiy Pivnyak, 2012-09-03 This volume deals with economic aspects of mining companies development strategies various mineral deposits development techniques imitational modeling of mine workings with rock massif methane extraction technologies during coal mining geomechanical processes during plow mining mining transport importance for mineral extraction massif strain stress state management using non explosive destructing materials and surface mining s detrimental influence on the environment Special attention is paid to alternative ways of mining such as borehole underground coal gasification for extraction of hardly accessible coal and development of gasification plant and development and use of alternative sources of energy such as gas hydrates and sun energy are also disussed in this book This collection of scientific papers will be of interest to mining engineers engineering technicians designers scientific and research personnel students postgraduates and all mining related professionals working in the coal and ore industry Underground Mining Methods and Technology A.B.

Szwilski, M.J. Richards, 2012-12-02 This book contains high quality papers from the principal mining research institutes of the USA United Kingdom India and South Africa thus providing up to date coverage of underground mining and technology in the main mining areas of the world The theme is mining in adverse conditions using state of the art technology A wide range of problems facing mining engineers is discussed namely thick seam working mining under massive beds highly productive room and pillar operations water problems ventilation and electronics in longwall mining **Underground Production Methods in Mining Engineering** Prof. Dr. Bilal Semih Bozdemir, Underground Production Methods in Mining Engineering Introduction to Underground Mining Advantages of Underground Mining Challenges of Underground Mining Shaft Mining Drift Mining Slope Mining Room and Pillar Mining Longwall Mining Safety Considerations in Underground Mining Ventilation Systems in Underground Mines Ground Support Techniques Drilling and Blasting Techniques Transportation Systems in Underground Mines Automation and Robotics in Underground Mining *International Conference on Stability in Underground Mining ; 2*, 1984 *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 , **International Conference on Stability in Underground Mining ; 1**, 1982 *Proceedings of the International Workshop on Rock Mass Classification in Underground Mining* Christopher Mark, Rimas Thomas Pakalnis, Robert J. Tuchman, 2007 **Thick Coal Seam Underground Mining** Jiachen Wang, Weijie Wei, 2025-04-18 This book systematically summarizes the main technology and latest advancements of China's thick coal seam underground mining technology It covers the mine development methods the top coal caving technology and drawing mechanism the measurement of top coal recovery and technology to improve the recovery ratio the large mining height technology and coal wall stability control large cross section roadway support technology slicing mining technology and roadway layout intelligent mining technology and advancements theories and techniques for controlling surrounding rock in thick coal seam as well as some typical cases of top coal caving and large mining height This book can serve as a teaching reference for graduate students in mining engineering and senior undergraduate students at higher education institutions It is also suitable for researchers engineering technicians designers and relevant technology management personnel engaged in coal mining **Rock Mechanics: Meeting Society's Challenges and Demands, Two Volume Set** Erik Eberhardt, Doug Stead, Tom Morrison, 2007-05-17 Ore extraction through surface and underground mining continues to involve deeper excavations in more complex rock mass conditions Communities and infrastructure are increasingly exposed to rock slope hazards as they expand further into rugged mountainous terrains Volume 1 presents papers describing new technologies ideas and insights concerning fundamental rock mechanics while the second volume comprises a collection of rock engineering case histories relevant to the major themes of the symposium rock slope hazards

geotechnical infrastructure surface and underground mining and petroleum exploitation     Sustainable and Innovative Mining Practices Amit Kumar Gorai, Sahendra Ram, Ram Manohar Bishwal, Santanu Bhowmik, 2024-11-16 Sustainable mining is need of hour to fulfil the increasing energy demand of the country and at the same time reduction in rate of carbon emission at utmost priority Any mining project has significant health safety and environmental issues and thus sustainable solutions for all these issues need to be addressed Currently the mining practitioners and industry bodies facing multiple challenges before to maintain the requirement of energy demand of the country and address of the environmental issues through sustainable and innovative mining practices This book covers the latest advancement in the process technology equipment etc for adopting sustainable mining practices It will offer an adequate resource to all the mining and associated academicians and industry professionals to gain the knowledge of latest tools and solutions for sustainable mining The proposed book will be chaptered based on the themes like Environmental Monitoring Management Safety health operations planning automation digitalization waste management and new tools and technologies for sustainable mining Many case studies of different types of mines will be demonstrated to know the actual practice of the mine and their typical solutions

*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 Information Circular ,1986 **Cutter Roof Failure** John L. Hill,1986 *Advances in Modeling, Assessment, and Prevention of Geotechnical and Geological Disasters* Xiaodong Fu,Yongtao Yang,Min Wang,Zetian Zhang,2022-10-19 *Placer Gold Sampling in and Near the Chugach National Forest, Alaska* Robert B. Hoekzema,Steven A. Fechner,1986

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