



R. V. Ramani, *editor*

**Longwall-Shortwall  
Mining  
State-of-the-Art**

# Longwallshortwall Mining Stateoftheart

**Pramod Thakur**



## **Longwall-shortwall Mining State of the Art:**

**Longwall-Shortwall Mining, State of the Art** Metallurgical American Institute of Mining, 1981-01-01 *Longwall Mining, 3rd Edition* Syd S. Peng, 2019-10-29 In the past 13 years since the publication of Longwall Mining 2nd edition in 2006 although there have been no major changes in longwall mining technology and operations many incremental developments in the whole system as well as various subsystems of the existing longwall mining operational technologies as detailed in the 2nd edition have been added to this edition Major developments are automation and health and safety technology as well as equipment reliability thereby greatly increasing productivity and cutting cost In particular the longwall system can now run automatically cut by cut forever without operators intervention provided that the geology allows it Other health and safety features such as LASC personal proximity detection color lighting automatic shield water sprays and remote shearer control are fully operational There are more than 7000 sensors installed in current longwall mining systems The big data obtained and fast communication technology have been fully utilized to improve and solve operational problems in real time Those features are fully documented in the new edition In pursuit of high productivity and cutting cost life cycle management that increases equipment reliability has been implemented by OEM Automation improvement such as tail end automatic chain tensioner greatly extends AFC chain's service life Other incremental improvements including dust and methane controls entry development panel design and face move are addressed Additional operational issues such as extension of panel width and compatibility test are also discussed Since the last plow longwall mine was closed in 2018 the chapter on plow longwalling has been dropped and in its place Automation of Longwall Components and System is added Also a new chapter Longwall Top Coal Caving Mining LTCC is added due to its successful application in Australia since 2005 Longwall Mining 3rd edition will be of interest to professionals and academics in the field of mining engineering specifically serving both as a reference work and an under graduate textbook but will also interest civil geomechanical and geological engineers and rock mechanics professionals as well as coal operators mining consultants researchers equipment manufacturers and government regulators **Longwall Roof Support Technology in the Eighties** Ernest A. Curth, Jeffrey M. Listak, United States.

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Underground Ventilation contains the proceedings of the 19th North American Mine Ventilation Symposium held at the South Dakota School of Mines Technology South Dakota Mines in Rapid City South Dakota June 17 22 2023 South Dakota Mines organized this symposium in collaboration with the Underground Ventilation Committee UVC of the Society for Mining Metallurgy Exploration SME The Mine Ventilation Symposium series has always been a premier forum for ventilation experts practitioners educators students regulators and suppliers from around the world to exchange knowledge ideas and opinions Underground Ventilation features sixty seven selected technical papers in a wide range of ventilation topics including auxiliary and primary systems mine fans case studies computational fluid dynamics applications diesel particulate control electric machinery mine cooling and refrigeration mine dust monitoring and control mine fires and explosion prevention mine gases mine heat mine ventilation and automation occupational health and safety renewable alternative energy monitoring and measurement network analysis and optimization and planning and design      **Bureau of Mines Research** United States. Bureau of Mines,1983      **Advanced Reservoir and Production Engineering for Coal Bed Methane** Pramod Thakur,2016-10-05 Advanced Reservoir and Production Engineering for Coal Bed Methane presents the reader with design systems that will maximize production from worldwide coal bed methane reservoirs Authored by an expert in the field with more than 40 years of experience the author starts with much needed introductory basics on gas content and diffusion of gas in coal crucial for anyone in the mining and natural gas industries Going a step further chapters on hydrofracking horizontal drilling technology and production strategies address the challenges of dewatering low production rates and high development costs This book systematically addresses all three zones of production levels shallow coal medium depth coal and deep coal with coverage on gas extraction and production from a depth of 500 feet to upwards of 10 000 feet strategies which cannot be found in any other reference book In addition valuable content on deep coal seams with content on enhanced recovery a discussion on CO2 flooding infra red heating and even in situ combustion of degassed coal giving engineers a greater understanding on how today s shale activities can aid in enhancing production of coal bed for future natural gas production Delivers how to recover and degas deeper coal seams while lowering development costs Addresses both sorption process and irreducible fraction of gas in coal with examples based on the author s 40 plus years of direct experience Explains how the same techniques used for production from deep shale activity can produce gas from deep coal seams with the help of enhanced recovery leading to increased gas production

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