



R. V. Ramani, *editor*

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

# Longwallshortwall Mining Stateoftheart

**Ernest A. Curth,Jeffrey M.  
Listak,United States. Bureau of Mines**

## **Longwall Shortwall Mining State of the Art:**

*Longwall-Shortwall Mining, State of the Art* Metallurgical American Institute of Mining, 1981-01-01      *Longwall Automation* Jeffrey M. Listak, Deno M. Pappas, 1990      The History and Future of Longwall Mining in the United States Thomas M. Barczak, 1992      *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 undergraduate 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. Bureau of Mines, 1985      *Fossil Energy Update*, 1982

**Remedial and Strata Replacement Techniques on Longwall Faces** Robert S. Dalzell, Ernest A. Curth, 1985

**Report of Investigations , Information Circular**, 1987      *Subsidence Information for Underground Mines-literature Assessment and Annotated Bibliography* Alan J. Fejes, 1985      *Laboratory Wear Testing Capabilities of the Bureau of Mines* Robert Blickensderfer, Joseph H. Tylczak, Brent W. Madsen, 1985      Solubilities of Chloride Salts of Alkali and Alkaline-earth Metals when Sparged with Hydrogen Chloride Elaine G. Noble, Donald E. Shanks, Donald J. Bauer, 1985

Comparisons Between Cross-measure Boreholes and Surface Gob Holes Tobias W. Goodman, Joseph Cervik, 1986

Underground Ventilation Purushotham Tukkaraja, 2023-07-27 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 CO<sub>2</sub> 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

**Non-CO<sub>2</sub> Greenhouse Gases: Why and How to Control?** J. van Ham, L.J.H.M. Janssen, Rob J. Swart, 2012-12-06 The background This volume contains the proceedings of the first International symposium on Non CO<sub>2</sub> Greenhouse Gases Why and How to Control held in Maastricht The Netherlands from 13 15 Decem ber 1993 Of the known greenhouse gases political attention to date has been primarily focused on carbon dioxide CO<sub>2</sub> and the 2 CFCs the latter because of their interaction with stratospheric ozone The other greenhouse gases notably methane CH<sub>4</sub> nitrous 4 oxide N<sub>2</sub>O HCFCs HFCs and

tropospheric ozone and its precursors nitrogen oxides NO and carbon monoxide CO and volatile organic compounds VOCs may appear collectively to be of equal importance for global warming but have attracted less attention Nevertheless a comprehensive approach to climate change response taking into account all sources and sinks of all greenhouse gases is explicitly allowed in the Framework Convention on Climate Change The Netherlands policy on climate already addresses all greenhouse gases In order to stimulate the development of international climate policy on this subject the Dutch Ministry of Housing Physical Planning and Environment supported the initiative of organizing an international symposium on the science and policy of the non CO<sub>2</sub> greenhouse gases An important rationale behind this initiative was recognizing that for the non CO<sub>2</sub> greenhouse gases abatement options are available that do not only address other environmental problems but that also do not require the major structural changes in society that an effective CO<sub>2</sub> policy may

Methane Control on Longwalls with Cross-measure Boreholes (Lower Kittanning Coalbed) Fred Garcia, Joseph Cervik, 1985      **Longwall-shortwall Mining, State of the Art** Raja V. Ramani, 1981-01-01      **Structural Design Considerations for Deep Mine Shafts** Samuel S. M. Chan, Michael J. Beus, 1985

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