



Arka Jyoti Das
Prabhat Kumar Mandal

Underground Extraction of Locked-Up Coal

Numerical Modelling Based Studies



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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 **Proceedings Geomechanics and Ground Control , Mining Techniques** Abhay Soni,2021-02-17 Mining techniques have evolved over time culminating in the well defined field of mining science which encompasses aspects such as engineering chemistry physics technology and management among others This book explains how mining techniques can be handled and improved further to make mining practices far more productive safe and eco friendly It is a useful resource for researchers students policy formulators and decision makers in different areas of mining and engineering **Engineering Geology and the Environment** Paul G. Marinos,1997 **Underground Extraction of Locked-Up Coal** Arka Jyoti Das,Prabhat Kumar Mandal,2015-11-25 In most of the coalfields in India there are many mines where the seams are only developed by extracting 15 20% of coal but the pillars could not be extracted due to different constraints like presence of surface subsurface features forest area danger of subsidence lack of proper methodology scarcity of suitable filling material environmental issues etc As a result a huge quantity of quality coal around 3000 million tonnes is locked up in pillars for many years This may lead to spontaneous heating and fire accumulation of poisonous gases severe stability problem leading to unsafe working and environmental problems Even after stowing by sand due to compaction there may be chances of strata movement or subsidence which may damage delicate surface sub surface structures So there is a pressing need of a technology to extract this huge amount of locked up coal In this book the locked up coal is proposed to be extracted either by artificial pillar or by strengthening the rib pillars with FRP Several extraction methodologies are designed and studied through numerical modelling for its stability analysis to evaluate its suitability of application in underground *Mining Policy Initiatives* B. B. Dhar,N. N. Gautam,2001 This Volume Comprises Of Papers Presented At A Conference Organized By The Mining Geological And Metallurgical Institute Of India Which Debate The Issues Confronting The Mining Industry And Explore Ways And Means

To Make The Industry Sustainable Economical And Safe 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 **Engineering and Mining Journal** ,1880 Mining Mirror ,2008 *Proceedings ... International Conference on Ground Control in Mining* ,2003 **Energy Research Abstracts** ,1981 *International Journal of Surface Mining and Reclamation* ,1992 **Mining Journal** ,1928 **Colliery Guardian and Journal of the Coal and Iron Trades** ,1905 TERI Information Digest on Energy and Environment ,2006 Future of Indian Mineral Industry ,2004 Papers presented at the International Conference on Future of Indian Mineral Industry Challenges and Opportunities held at Calcutta on 17 18 September 2004 *Mining Engineering* ,1913 **The Statist** ,1929 **The Electrical Review** ,1924 **Annual Report** Chamber of Mines of South Africa,1967

Enjoying the Beat of Expression: An Mental Symphony within **Underground Extraction Locked Up Coal Numerical**

In some sort of eaten by monitors and the ceaseless chatter of fast communication, the melodic splendor and mental symphony developed by the written term often diminish into the background, eclipsed by the constant noise and disturbances that permeate our lives. Nevertheless, nestled within the pages of **Underground Extraction Locked Up Coal Numerical** a charming fictional treasure filled with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this interesting masterpiece conducts viewers on an emotional journey, skillfully unraveling the concealed songs and profound impact resonating within each cautiously crafted phrase. Within the depths of the touching evaluation, we shall explore the book is main harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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