How Digital Innovation Can Improve Mining Productivity

Improving Mine SafetyStrategies for Improving Miners' TrainingNational Mining and Minerals PolicyNational Mining and Minerals PolicyUtilizing Educational Data Mining Techniques for Improved Learning: Emerging Research and OpportunitiesMining Research ReviewMining Science and TechnologyCost-benefit Analysis of Computer-assisted Mining Through Production and Cost ModelingLow Productivity in American Coal MiningMining Haul RoadsDevelopments in Ground Control in Mining 1981-2020Mining Heat ManagementBureau of Mines ResearchImproving Safety at Small Underground MinesThe Water Legacies of Conventional MiningFramework for Autonomous Navigation of a Continuous Mining MachineThe 5S Innovation ModelInternational Conference on Energy and Power Engineering (EPE2014)From Mines and Wells to Well-Built MindsAnnual Report to Congress - U.S. Department of Energy, Office of Policy and Evaluation United States. Congress. Senate. Committee on Appropriations. Subcommittee on Departments of Labor, Health and Human Services, Education, and Related Agencies United States. Congress. Senate. Interior and Insular Affairs United States. Congress. Senate. Committee on Interior and Insular Affairs. Subcommittee on Minerals, Materials, and Fuels Bhatt, Chintan United States. Bureau of Mines Yuehan Wang Suresh K. Bhatt United States. General Accounting Office Roger Thompson Syd S. Peng Zuri Deepwater United States. Bureau of Mines James E. Nickum Donna L. Anderson Antonio 'Tony' Nieto B□ n□ dicte de la Bri□ re United States. Department of Energy. Office of the Assistant Secretary for Policy and Evaluation

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modern education has increased its reach through ict tools and techniques to manage educational data with the help of modern artificial intelligence data and web mining techniques on dedicated cloud or grid platforms for educational institutes can be used by utilizing data science techniques to manage educational data the safekeeping delivery and use of knowledge can be increased for better quality education utilizing educational data mining techniques for improved learning emerging research and opportunities is a critical scholarly resource that explores data mining and management techniques that promote the improvement and optimization of educational data systems the book intends to provide new models platforms tools and protocols in data science for educational data analysis and introduces innovative hybrid system models dedicated to data science including topics such as automatic assessment educational analytics and machine learning this book is essential for it specialists data analysts computer engineers education professionals administrators policymakers researchers academicians and technology experts

jointly sponsored by the china university of mining and technology and the university of nottingham uk a total of 187 papers have been included in the proceedings of which fifty two are contributed by authors outside of china scholars and experts from both china and abroad discuss and exchange information on the latest developments in mining science and technology worldwide which cover extensive areas ranging from mine operation and safety technology geology and methane drainage geomechanics mine construction and tunnelling mineral processing and clean coal technology mine control and automation to mine environment mine economics and management

mining haul roads are a critical component of surface mining infrastructure and the performance of these roads has a direct impact on operational efficiency costs and safety a significant proportion of a mine s cost is associated with material haulage and well designed and managed roads contribute directly to reductions in cycle times fuel burn tyre costs and overall cost per tonne hauled and critically underpin a safe transport system the first comprehensive treatise on mining haul road design construction operation and management mining haul roads theory and practice presents an authoritative compendium of worldwide experience and state of the art practices developed and applied over the last 25 years by the three authors over three continents and many of the world s leading surface mining operations in this book the authors introduce the four design components of an integrated design methodology for mining haul roads geometric including drainage structural functional and maintenance management illustrate how mine planning constraints inform road design requirements develop the analytical framework for each of the design components from their theoretical basis and using typical mine site applications illustrate how site specific design guidelines are developed together with

their practical implementation summarise the key road safety and geometric design considerations specific to mining haul roads specify the mechanistic structural design approach unique to ultra heavy wheel loading associated with otr mine trucks describe the selection application and management of the road wearing course material together with its rehabilitation including the use of palliatives develop road and operating cost models for estimating total road user costs based on road rolling resistance measurement and modelling techniques illustrate the approach of costing a mining road construction project based on the design methodologies previously introduced list and describe future trends in mine haulage system development how mining haul road design will evolve to meet these new system challenges and how the increasing availability of data is used to manage road performance and ultimately provide 24x7 trafficability mining haul roads theory and practice is a complete practical reference for mining operations contractors and mine planners alike as well as civil engineering practitioners and consulting engineers it will also be invaluable in other fields of transportation infrastructure provision and for those seeking to learn and apply the state of the art in mining haul roads this book is the most definitive treatise on mining haul roads ever written there has never been a text that addresses the many facets of mining haul roads on such a scope from the foreword by jim humphrey professional engineer autonomous haulage systems developer and distinguished member of the society of mining metallurgy and exploration

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

mining heat management tackles the critical issue of thermal management in modern mining operations it emphasizes how escalating cooling costs can undermine profitability and highlights the strategic importance of effective heat management for worker safety equipment lifespan and overall operational productivity the book explores how increasingly sophisticated technologies and deeper mining depths have intensified thermal challenges necessitating proactive solutions it argues that managing heat is no longer solely an operational concern but a strategic one impacting economic viability and social responsibility this book delves into innovative cooling technologies comparing their effectiveness and costs in different mining contexts it also stresses the necessity of integrating thermal management into mine design and operational strategy for long term sustainability using empirical data engineering models and global case studies the book bridges mechanical engineering with business management it advocates for a holistic approach integrating thermal management throughout the mining lifecycle the book begins with fundamental principles of heat transfer and progresses to analyzing heat sources detailing cooling methods and presenting case studies it culminates in a framework for developing comprehensive thermal management plans that include risk assessment and cost benefit analysis ultimately mining heat management offers actionable strategies for improving thermal management practices enhancing operational efficiency and reducing energy consumption

the impact of mining is too big to ignore in a world of oversubscribed water this is true of conventional mining as much as or even more than hydraulic fracturing fracking the legacy issues of such mining on water have not been fully appreciated especially the irretrievable effects mining has had on communities and ecosystems around the world through its impact on water yet this is not an us or them problem the wealth influence and technical knowledge of mining interests can and must be part of the solution all of the contributions to this volume either consider the deficiencies of existing governance structures and the need for better ones or explore the use of new techniques to identify and evaluate social and environmental impacts the chapters in this book were originally published in the journal water international

this book is aimed to help us look into the future of mining by defining ultimate operational conditions that will be present in a typical mining operation regardless of how far in the future it introduces an innovation strategy designed to identify current and future technologies to achieve specific ultimate operational conditions that will be present in the mine of the future the mining innovation strategy presented here is the result of several innovation projects where the author had the opportunity to assist and had successfully implemented it at several mining companies and mining research institutions around the world including australia south africa the united states canada peru and mexico this innovation strategy is designed to be consistent with any type of mining method as well as any commodity being mined such as metal or nonmetal mining soft rock or hard rock mining underground or surface mining the five ultimate mining operational conditions or drivers discussed in this book were carefully defined considering current operational and technology trends which will keep any mining company competitive during the following decades the mining innovation strategy thus considers five ultimate operational conditions or drivers 1 achieving maximum safety 2 simplifying systems 3 using smart intelligent systems 4 designing stealth operations and 5 sustainable use of environmental and human resources within the operation these five innovation drivers are common denominators to any mining method regardless of their operational nature

or commodity being mined either today or in the future it is thus envisaged that the mining innovation model introduced in this book can serve as an initial guideline for the mining industry to better identify current and future technologies that need to be addressed today

the 2014 international conference on energy and power engineering epe2014 will be held on april 26 27 2014 in hong kong china the aim of this international convention is to bring together experts and scholars from around the world and offer them a chance to share the latest research results in the field of energy and power engineering we all know that over the past few decades a great change has happened in the field of the environment technology and the science technology is growing faster and faster in order to keep up with the daily changing situation we have sent invitations to experts scholars and other people who have devoted himself in related fields and it is a great honor to us that most of them have accepted our invitation and supported the epe2014 with their latest studies up till now we have received over three hundred papers from various countries this shows that there has been a growing interest in the field of energy and power engineering among those papers received we have eventually chosen about a hundred to be presented and included in this proceeding these papers generally represented the current research status in this field and the future trend we sincerely believe that these papers could be valuable to the future work of yours finally on behalf of the committee i would like to deeply express our gratitude to those who have supported the epe2014 especially the international experts who helped reviewing papers the destech publications help publish the conference proceedings and last but not least the authors of these inspiring papers without the help from these people epe2014 would not be as half successful as it is now here welcome to epe2014 and let s hope that it will be a great success tim chou

sub saharan africa s natural resource rich countries have poor human development children in these countries are more likely to die before their first birthday more likely to be stunted and less likely to attend school than children in other countries with similar income despite the current price downturn extractives will remain an important part of sub saharan africa s growth story using resource rents wisely remains a long term challenge governments must choose how to allocate resource rents between spending investing in human or physical capital or investing in global financial assets the return to investing in physical and human capital will be high in countries where the capital stock is low moreover higher levels of human capital make investments in physical capital more productive which suggests that the optimal portfolio will involve investing in both human capital should be prioritized in many of sub saharan africa s resource rich countries because of the low starting point investing effectively in human capital is hard because it involves delivering services which means coordinating a large number of actors and activities three dimensions of governance are key institutions incentives and information decentralization and leveraging the private sector are entry points to reforming institutional structures revenues from natural resources can fund financial incentives to strengthen performance or demand producing information making it available and increasing social accountability helps citizens understand their rights and hold governments and providers accountable improving the quality of education and health services is central to improving human capital two additional areas are promising first early child development mother and newborn health and early child nutrition care and education improves outcomes in childhood and later on second cash transfers either conditional or unconditional reduce poverty increase household investments in child education nutrition and health and increase the investment in productive assets which foster further income generation

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