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The Mining Valuation Handbook 4e SME

Underground Mining Methods presents the latest principles and techniques in use today. Reflecting the international and diverse nature of the industry, a series of mining case studies is presented covering the commodity range from iron ore to diamonds extracted by operations located in all corners of the world. Industry experts have contributed 77 chapters. This book is certain to become a standard for every practicing mining engineer and student alike. Sections include: General Mine Design Considerations, Room-and-Pillar Mining of Hard Rock/Soft Rock, Longwall Mining of Hard Rock, Shrinkage Stopping, Sublevel Stopping, Cut-and-Fill Mining, Sublevel Caving, Panel Caving, Foundations for Design, and Underground Mining Looks to the Future.

SME Mineral Processing & Extractive Metallurgy Handbook SME

The go-to resource for professionals in the mining industry. The SME Mining Reference Handbook was the first concise reference published in the mining field and it quickly became the industry standard. It sits on almost every mining engineer's desk or bookshelf with worn pages, tabs to find most used equations, and personal notes. It has been the unequalled single reference and the first source of information for countless engineers. This second edition of the SME Mining Reference Handbook builds on that success. With an enhanced presentation, new and updated information is represented in a concise, well-organized guide of important data for everyday use by engineers and other professionals engaged in mining, exploration, mineral processing, and environmental compliance and

reclamation. With its exhaustive trove of charts, graphs, tables, equations, and guidelines, the handbook is the essential technical reference for mobile mining professionals. With its exhaustive trove of charts, graphs, tables, equations, and guidelines, the handbook is the essential technical reference for mobile mining professionals.

Tailings Management Handbook SME

This book will help direct mining operations through the use of innovative economic strategies. The text covers what is meant by a cost-effective mining scheme, the economics of information, and the procedures for rational evaluation of uncertain projects.

Advances in Comminution Society for Mining, Metallurgy & Exploration

The use of diesel-powered equipment in underground mining operations provides many benefits to the industry. It also presents many challenges to the health and safety of workers as it is a significant source of submicrometer aerosols and noxious gases. This book was developed to assist the coal and metal/nonmetal underground mining industries in their efforts to reduce the exposure of workers to aerosols and gases from diesel-powered equipment. It includes information collected by researchers at the National Institute for Occupational Safety and Health/Office of Mine Safety and Health Research (NIOSH/OMSHR). Prior to the production of this text, the knowledge on this complex issue was fragmented. The goal of this volume is to make the information available in one easy-to-use reference. The book includes comprehensive, mine-specific programs for use by mechanics, mine ventilation engineers, industrial hygienists, mine managers, union health and safety representatives, and personnel responsible for the acquisition of diesel vehicles, engines, exhaust aftertreatment systems, fuels, and lubricants. The description of methods to reduce exposure to diesel aerosols includes curtailment of diesel particulate matter and gaseous emissions at their source, and controlling airborne pollutants with

ventilation and personal protective equipment. This information should also help researchers in industry, government, and academia to identify areas that need to be addressed in future research and development efforts.

Beneficiation of Phosphates Society for Mining, Metallurgy, and Exploration, Incorporated

This SME classic is both a reference book for the working engineer and a textbook for the mining student. This hardcover edition gives a brief history of surface mining and a general overview of the state of surface mining today--topics range from production and productivity to technological developments and trends in equipment. This extremely useful text takes the approach that exploration and mining geologists must be expert in a number of fields, including basic finance and economics, logistics, and pragmatic prospecting. Readers will find material on all these topics and more. The book's nine chapters include: Introduction, Exploration and Geology Techniques, Ore Reserve Estimation, Feasibility Studies and Project Financing, Planning and Design of Surface Mines, Mine Operations, Mine Capital and Operating Costs, Management and Organization, and Case Studies. The book is fully indexed.

Surface Mining, Second Edition Springer Science & Business Media Mineral Processing Technology, Third Edition: An Introduction to the Practical Aspects of Ore Treatment and Mineral Recovery details the fundamentals of contemporary ore processing-techniques. The title first introduces the basics of ore-processing, and then proceeds to tackling technical topics in the subsequent chapters. The text covers methods and procedures in ore handling, industrial screening, and ore sorting. The selection also deals with ore-processing equipment, such as crushers and grinding mills. The book will be of great use to students and professionals of disciplines involved in mining industry.

SME Mineral Processing and Extractive Metallurgy Handbook Society for Mining, Metallurgy & Exploration

This book provides a detailed overview of the operational principles of modern mining geology, which are presented as a good mix of theory and

practice, allowing use by a broad range of specialists, from students to lecturers and experienced geologists. The book includes comprehensive descriptions of mining geology techniques, including conventional methods and new approaches. The attributes presented in the book can be used as a reference and as a guide by mining industry specialists developing mining projects and for optimizing mining geology procedures. Applications of the methods are explained using case studies and are facilitated by the computer scripts added to the book as Electronic Supplementary Material. **SME Mining Reference Handbook SME**

Basics of Metal Mining Influenced Water is a must-read for planners, regulators, consultants, land managers, students, researchers, or others concerned about the environmentally sound management of metal mine wastes and drainage quality. The first of a series of six handbooks on technologies for managing metal mine and metallurgical process draining, this book offers a unique, comprehensive perspective on the subject. Unlike other texts that focus primarily on acid drainage from coal mines, the authors examine both acidic and neutral pH waters that can be hazardous to the environment. Planning a new mine in today's increasingly contentious regulatory and political environment demands a different philosophy. **Basics of Metal Mining Influenced Water** takes an innovative, holistic approach by considering all aspects of the mine life cycle, including closure. Written by a team of experts from state and federal governments, academia, and the mining industry, **Basics of Metal Mining Influenced Water** also discusses the major physical and chemical relationships between mining, climate, environment, and mine waste drainage quality. The authors have included an extensive glossary defining hundreds of technical terms for easier reading and understanding.

Underground Mining Methods CRC Press

This comprehensive reference work distills the entire body of knowledge that characterizes mining engineering as a disciplinary field. It devotes attention to all branches of mining--metal, coal, and nonmetal--and to all locales of mining, including surface, underground, and hybrid.

Mining Haul Roads Society for Mining, Metallurgy & Exploration
An introductory text and reference on mining engineering highlighting the latest in mining technology **Introductory Mining Engineering** outlines the role of the mining engineer throughout the life of a mine, including prospecting for the deposit, determining the site's value, developing the mine, extracting the mineral values, and reclaiming the land afterward. This Second Edition is written with a focus on sustainability--managing land to meet the economic and environmental needs of the present while enhancing its ability to also meet the needs of future generations. Coverage includes aboveground and underground methods of mining for a wide range of substances, including metals, nonmetals, and fuels. Completely up to date, this book presents the latest information on such technologies as remote sensing, GPS, geophysical surveying, and mineral deposit evaluation, as well as continuous integrated mining operations and autonomous trucks. Also included is new information on landscape

restoration, regional planning, wetlands protection, subsidence mitigation, and much more. New chapters include coverage of: * Environmental responsibilities * Regulations * Health and safety issues Generously supplemented with more than 200 photographs, drawings, and tables, **Introductory Mining Engineering, Second Edition** is an indispensable book for mining engineering students and a comprehensive reference for professionals.

Basics of Metal Mining Influenced Water SME

Annotation Based on 138 proceedings papers from October 2002, this broad reference will become the new standard text for colleges and will become a must for engineers, consultants, suppliers, manufacturers.

SME Mining Engineering Handbook SME

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.

SME Mining Engineering Handbook, Third Edition Society for Mining Metallurgy & Exploration

Advanced Mine Ventilation presents the reader with a unique book providing the theory and applications for designing mine ventilation with computers, controlling respirable coal dust and diesel particulate matter, combustible gas control and, mine fire management. The book summarizes the latest knowledge created in the past 40 years in these areas. Authored by an expert in the field with 50 years' experience, the book is a great combination of theory and applications. The mine ventilation section provides computer programs (both FORTRAN and C++) to calculate not only air quantities and pressure losses but also the concentration of any pollutant in all junctions and branches of the mine network. Small particle mechanics and dust control is covered in the second section of the book. The third section on combustible gas control discusses all aspects of mine gases from origin to control. The last section on mine fire control discusses spontaneous combustion, frictional ignitions, mine explosions, and mine sealing and recovery. The book is not only a very good reference book but also an excellent textbook for two graduate level courses in Mining Engineering. Provides the latest knowledge on the four related topics of mine environment control; that is, ventilation, dust, gas, and fire in a single volume. Computer simulation of mine ventilation in both FORTRAN and C++. State-of-the-art respirable dust control. Mine degasification and methane production from a coal lease. Mine fire management.

Advanced Mine Ventilation SME

Mining Can Be Environmentally and Socially Responsible—and Still Profitable Even in this regulated, environmentally aware world, running a mine can be done

safely, with combined goals of maximizing both the return on investment from extraction and the positive environmental and social impact that a well-run, responsible mine can offer. Responsible Mining is your comprehensive guide to addressing social and environmental risks at mines in the developed world. This book gathers case studies of best practices across the full range of issues. With examples from four continents, you can learn from both your home territory and around the world. Seventy-two leading mine engineers, forestry scientists, conservationists, environmental consultants, sustainability professionals, and geologists from prominent universities, extraction businesses, nongovernmental organizations, and governments have come together within these pages to lead you safely and profitably toward socially, environmentally, and economically beneficial mining practices. Organized around ten sustainability principles required of International Council on Mining and Metals members (including some of the largest extraction businesses in the world), the book addresses nearly every environmental and social consequence of mining in developed countries, including:

- Protecting biodiversity
- Minimizing negative impacts on climate change
- Interacting appropriately with indigenous peoples
- Enhancing the local community and reducing poverty
- Reusing and recycling materials
- Recovering energy
- Recapturing and reusing water
- Managing proper storage, reclamation, and disposal of tailings
- Restoring the land after ceasing mining operations

You will want to make this book required reading for all members of your team who are responsible for environmental compliance, resource recovery, sustainability, energy management, and marketing/public relations to facilitate cross-departmental discussions about how to incorporate best practices into your business plans.

SME Mining Engineering Handbook Atheneum Books

This textbook sets the standard for university-level instruction of mining engineering principles. With a thoughtful balance of theory and application, it gives students a practical working knowledge of various concepts presented. Its utility extends beyond the classroom as a valuable field reference for practicing engineers.

Mining Engineering Analysis SME

Explains complex mining concepts in a way simple enough for those who are not familiar with the industry, yet thorough enough to be useful to long-time professionals. This colourful book presents a logical and sensible

sequence for acquiring a strong working knowledge of the world of mining.

Mine Tailings Society for Mining, Metallurgy & Exploration

This comprehensive reference work distills the entire body of knowledge that characterizes mining engineering as a disciplinary field. It devotes attention to all branches of mining--metal, coal, and nonmetal--and to all locales of mining, including surface, underground, and hybrid.

Responsible Mining Society for Mining Metallurgy

This compilation from the 2018 Beneficiation of Phosphates Conference includes insights from dozens of internationally respected experts on key breakthroughs that will shape the industry in the years ahead. Learn from the best and the brightest in the industry. The book reflects on the recent impetus for reviewed research in the recovery of rare earth elements from secondary resources. Recovery of rare earth elements from phosphate processing has been one of the important projects of the Critical Materials Institute (CMI). This compilation highlights some of the findings of the CMI phosphate project. Learn how competition in the flotation reagent market has stimulated innovative reagent development work. As a result, new reagents have been formulated and targeted at dolomite flotation, calcite flotation, more selective phosphate flotation, and even flotation in seawater. The Florida phosphate industry is seeing improvements in the processing of high dolomite reserves. Recent encouraging developments include new reagents that can float dolomite without using phosphoric acid as a phosphate depressant, reducing MgO content in the "Crago" flotation concentrate thus allowing blending of some high-dolomite pebbles in the final product, and innovative gravity separation. Topics include: Sustainability and the Environment Comprehensive Extraction and Smart Chemistry Flotation Fundamentals and Reagents Advances in Processing Technology and Equipment

Energy Efficiency in the Minerals Industry SME

This book focuses on instilling a safety culture and fostering the ability to recognize and manage health and safety responsibilities and requirements. It details effective and safety management systems and concentrates on safety and health hazard anticipation, identification, evaluation, and control.

Mineral Processing Technology Springer

A practical field reference for mining and mineral engineers that is small enough to carry into the field. With its comprehensive store of charts, graphs, tables, equations, and rules of thumb, this handbook is the essential technical reference for mobile mining professionals.