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Introductory Mining Engineering by Howard L. Hartman

Introductory Mining Engineering. Howard L. Hartman, Jan M. Mutmansky. John Wiley & Sons, Aug 9, 2002 - Technology & Engineering - 592 pages. 2 Reviews. An introductory text and reference on mining...

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Mining: the activity, occupation, and industry concerned with the extraction of minerals. Mining Engineering: the art and science applied to the process of mining and the operation of mines. Mineral: a naturally occurring substance, usually inorganic, having a definite chemical composition and distinctive physical

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Introductory mining engineering PDFry Mining Engineering, 2002, 570 pages, Howard L. Hartman, Jan M. Mutmansky, 0471348511, 9780471348511, John. HOWARD L. HARTMAN, PhD, was Drummond Chair and professor of Mining Engineering at the University of Alabama in Tuscaloosa.

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This book covers both above ground and underground methods for a wide variety of mineral substances, including metals, non-metals, and fuels. Completely revised, this book includes updated material on remote sensing, GPS, seismic surveying, ground-penetrating radar, continuous integrated mining operations, and autonomous trucks. It also includes a new chapter on environmental responsibilities, regulations, and health and safety issues. The book covers new information on landscape, regional planning, wetlands protections, and subsidence mitigation. · Introduction to Mining· Mining and Its Consequences· Stages of Mining: Prospecting and Exploration· Stages of Mining: Development and Exploitation· Unit Operations of Mining· Surface Mine Development· Surface Mining: Mechanical Extraction Methods· Surface Mining: Aqueous Extraction Methods· Underground Mine Development· Underground Mining: Unsupported Methods· Underground Mining: Supported Methods· Underground Mining: Caving Methods· Novel Methods and Technology· Summary of Mining Methods and Their Selection

This revised edition presents an engineering design approach to ventilation and air conditioning as part of the comprehensive environmental control of the mine atmosphere. It provides an in-depth look, for practitioners who design and operate mines, into the health and safety aspects of environmental conditions in the underground workplace.

This 992-page book is a compilation of 118 state-of-the-art technical papers presented at the industry's most prestigious gathering. A CD containing the full text is included. Read what coal preparation experts from 20 countries have to share on a variety of current issues, including: · Water-based coal processing facilities and a review of plant designs and operations used throughout the world.· Breakthroughs in dense medium separations, water-based separation processes, froth flotation, and de-watering.· New wear-resistant materials proven to help plant operators reduce maintenance costs, elevate plant availability, and maintain a high level of process efficiency.· Groundbreaking methodologies that maximize the amount of coal recovered while meeting the required product specifications.· The processing and potential uses of waste.· Innovative online monitoring and control methods and the latest on the application of modeling and simulation.· Advancements in technologies that can upgrade coal without the use of water, including density-based, thermal, and optical dry cleaning.· And much, much more.

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 the various concepts presented. Its utility extends beyond the classroom as a valuable field reference for practicing engineers and those preparing for the Professional Engineers Exam in Mining Engineering. This practical guidebook covers virtually all aspects of successful mine design and operations. It is an excellent reference for engineering students who are studying mine design or who require guidance in assembling a mine-design project, and industry professionals who require a comprehensive mine-design reference book. Topics include everything from mine preplanning to ventilation to pumping, power, and hauling systems. The text presents widely accepted principles that promote safe, efficient, and profitable mining operations. The book is an excellent text and self-study guide. Each chapter is organized to demonstrate how to apply various equations to solve day-to-day operational challenges. In addition, each chapter offers a series of practice problems with solutions.

This third edition of the SME Mining Engineering Handbook reaffirms its international reputation as "the handbook of choice" for today's practicing mining engineer. It distills the body of knowledge that characterizes mining engineering as a disciplinary field and has subsequently helped to inspire and inform generations of mining professionals. Virtually all of the information is original content, representing the latest information from more than 250 internationally recognized mining industry experts. Within the handbook's 115 thought-provoking chapters are current topics relevant to today's mining professional: Analyzing how the mining and minerals industry will develop over the medium and long term--why such changes are inevitable, what this will mean in terms of challenges, and how they could be managed Explaining the mechanics associated with the multifaceted world of mine and mineral economics, from the decisions associated with how best to finance a single piece of high-value equipment to the long-term cash-flow issues associated with mine planning at a mature operation Describing the recent and ongoing technical initiatives and engineering developments in relation to robotics, automation, acid rock drainage, block caving optimization, or process dewatering methods Examining in detail the methods and equipment available to achieve efficient, predictable, and safe rock breaking, whether employing a tunnel boring machine for development work, mineral extraction using a mobile miner, or cast blasting at a surface coal operation Identifying the salient points that dictate which is the safest, most efficient, and most versatile extraction method to employ, as well as describing in detail how each alternative is engineered Discussing the impacts that social and environmental issues have on mining from the pre-exploration phase to end-of-mine issues and beyond, and how to manage these two increasingly important factors to the benefit of both the mining companies and other stakeholders

The Office of Industrial Technologies (OIT) of the U. S. Department of Energy commissioned the National Research Council (NRC) to undertake a study on required technologies for the Mining Industries of the Future Program to complement information provided to the program by the National Mining Association. Subsequently, the National Institute for Occupational Safety and Health also became a sponsor of this study, and the Statement of Task was expanded to include health and safety. The overall objectives of this study are: (a) to review available information on the U.S. mining industry; (b) to identify critical research and development needs related to the exploration, mining, and processing of coal, minerals, and metals; and (c) to examine the federal contribution to research and development in mining processes.

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