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Introductory Mining Engineering 2nd Ed Book 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 characteristics.

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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.

A beginning text and elementary reference book in mining engineering which adopts both a quantitative and a numerical approach. Provides in-depth treatment of the applications of mining engineering while reinforcing material with clear, complete analyses of special topics as well as numerical examples and problems. Initial chapters are devoted to fundamentals, explaining the four stages of mining -- prospecting, exploration, development, exploitation-- and the unit operations of mining. The text continues with coverage of surface mining and underground mining. Highlights novel methods and provides case studies, answers to selected problems, extensive references and bibliography, and both English and SI or metric units.

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

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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

Underground Mining Methods: Engineering Fundamentals and International Case Studies 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 sections on 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.

The history of mining is replete with controversy of which much is related to environmental damage and consequent community outrage. Over recent decades, this has led to increased pressure to improve the environmental and social performance of mining operations, particularly in developing countries. The industry has responded by embracing the ideals of sustainability and corporate social responsibility. Mining and the Environment identifies and discusses the wide range of social and environmental issues pertaining to mining, with particular reference to mining in developing countries, from where many of the project examples and case studies have been selected. Following an introductory overview of pressing issues, the book illustrates how environmental and social impact assessment, such as defined in "The Equator Principles", integrates with the mining lifecycle and how environmental and social management aims to eliminate the negative and accentuate the positive mining impacts. Practical approaches are provided for managing issues ranging from land acquisition and resettlement of Indigenous peoples, to the technical aspects of acid rock drainage and mine waste management. Moreover, thorough analyses of ways and means of sharing non-transitory mining benefits with host communities are presented to allow mining to provide sustainable benefits for the affected communities. This second edition of Mining and the Environment includes new chapters on Health Impact Assessment, Biodiversity and Gender Issues, all of which have become more important since the first edition appeared a decade ago. The wide coverage of issues and the many real-life case studies make this practice-oriented book a reference and key reading. It is intended for environmental consultants, engineers, regulators and operators in the field and for students to use as a course textbook. As much of the matter applies to the extractive industries as a whole, it will also serve environmental professionals in the oil and gas industries. Karlheinz Spitz and John Trudinger both have multiple years of experience in the assessment of mining projects around the world. The combination of their expertise and knowledge about social, economic, and environmental performance of mining and mine waste management has resulted in this in-depth coverage of the requirements for responsible and sustainable mining.