

Electrical Engineering In Mines

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

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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

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Both mining and electrical engineers need to bear in mind the following specific requirements of electrical applications in mining. 1) Economy of electrical plant and equipment in relation to the cost price of the extracted mineral ores, governed by the specific exploitation conditions, 2) Reliability of electrical plant and equipment for extractive operations, operational efficiency, and plant and personnel safety. 3) Special safeguards to counteract the additional hazards posed by the use of electric power, and by electrical phenomena in general. The book has been written along these lines, dealing

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with those topics which highlight the aspects of electrical engineering of relevance for mining engineers and aspects of mining operations that electrical engineers need, to meet the above-mentioned basic requirements governing the introduction and use of electrical plants and systems in mines. This book is intended as a text book and will be of use to students, and colleges as well as to mining and electrical engineers.

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.

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