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South African Mining & Engineering Journal
Theory and Technology of Rock Excavation for Civil Engineering
Journal of the Institution of Engineers (India).
Geomechanics and Geodynamics of Rock Masses
Mining and Rock Construction Technology Desk Reference
Surface and Underground Excavations
Mechanical Boring Or Drill and Blast Tunnelling
Advances in Spatio-Temporal Analysis
Handbook of Tunnel Engineering II
Anchoring in Rock and Soil
Australian Journal of Mining
Geomechanics and Geodynamics of Rock Masses, Volume 1
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South African Mining and Engineering Journal
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Engineering News and American Contract Journal
World Mining Equipment
Tunnels & Tunnelling
TBM Excavation in Difficult Ground Conditions

Tunnels and Underground Cities: Engineering and Innovation Meet Archaeology, Architecture and Art
Tunneling in Rock by Drilling and Blasting

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SANFORD HOOD

Encyclopaedia of Occupational Health and Safety CRC Press
This text concentrates mainly on the Polish mining industry. It involves mining of a significant quantities of lignite, coal, copper, sulphur and many industrial minerals, which are all discussed in this book.

Minerals Yearbook Springer Science & Business Media

Tunnel engineering is one of the oldest, most interesting but also challenging engineering disciplines and demands not only theoretical knowledge but also practical experience in geology, geomechanics, structural design, concrete construction, machine technology, construction process technology and construction management. The two-volume "Handbuch des Tunnel- und Stollenbaus" has been the standard reference work for German-speaking tunnellers in theory and practice for 30 years. The new English edition is based on a revised and adapted version of the third German edition and reflects the latest state of knowledge. The book is published in two volumes, with the second volume covering both theoretical themes like design basics, geological engineering, structural design of tunnels and monitoring instrumentation, and also the practical side of work on the construction site such as dewatering, waterproofing and scheduling as well as questions of tendering, award and contracts, data management and process controlling. As with volume I, all chapters include practical examples.

South African Mining & Engineering Journal Elsevier

The book provides a comprehensive account of an important sector of engineering—the hydro-power—that is renewable and potentially sustainable. It covers the entire scope of the subject in a lucid manner starting from the fundamentals of hydrology, to various hydraulic and civil structures to electrical and mechanical equipment as required for hydro-power projects. Many new issues and challenges voiced in the energy sector in general and water power in particular during the last decade have been addressed in the book. Recent innovations and developments in some areas

like wave power, and new technologies in hydraulic structures, like the P-K weirs, fuse gates, stepped spillways, CFRD, RCC, etc., find place suitably in the book. The book is meant for undergraduate and postgraduate students of civil and electrical engineering and for the professionals interested in the subject. NEW IN THE SECOND EDITION ? Thoroughly rewritten text; takes account of the new and growing technology, including • New types of dams, sedimentation of reservoirs, rehabilitation of dams • Spillway design floods, new types of spillways • Mathematical models for rainfall-runoff analysis, including contribution of snowfall • Structural components of tidal plants, and new types of turbines • Wave power exploitation ? Detailed study on Sardar Sarovar and Tehri projects ? Fully updated with the latest data, up to 2013 ? Two new chapters on 'small-scale hydro, and 'environmental impact of hydro and multi-purpose projects'

Theory and Technology of Rock Excavation for Civil Engineering John Wiley & Sons

Developments in Geographic Information Technology have raised the expectations of users. A static map is no longer enough; there is now demand for a dynamic representation. Time is of great importance when operating on real world geographical phenomena, especially when these are dynamic. Researchers in the field of Temporal Geographical Information Systems (TGIS) have been developing methods of incorporating time into geographical information systems. Spatio-temporal analysis embodies spatial modelling, spatio-temporal modelling and spatial reasoning and data mining. Advances in Spatio-Temporal Analysis contributes to the field of spatio-temporal analysis, presenting innovative ideas and examples that reflect current progress and achievements.

Journal of the Institution of Engineers (India). John Wiley & Sons

This book, written for the benefit of engineering students and practicing engineers alike, is the culmination of the author's four decades of experience related to the subject of electrical measurements, comprising nearly 30 years of experimental research and more than 15 years of teaching at several engineering institutions. The unique feature of this book, apart from covering the syllabi of various universities, is the style of

presentation of all important aspects and features of electrical measurements, with neatly and clearly drawn figures, diagrams and colour and b/w photos that illustrate details of instruments among other things, making the text easy to follow and comprehend. Enhancing the chapters are interspersed explanatory comments and, where necessary, footnotes to help better understanding of the chapter contents. Also, each chapter begins with a "recall" to link the subject matter with the related science or phenomenon and fundamental background. The first few chapters of the book comprise "Units, Dimensions and Standards"; "Electricity, Magnetism and Electromagnetism" and "Network Analysis". These topics form the basics of electrical measurements and provide a better understanding of the main topics discussed in later chapters. The last two chapters represent valuable assets of the book, and relate to (a) "Magnetic Measurements", describing many unique features not easily available elsewhere, a good study of which is essential for the design and development of most electric equipment – from motors to transformers and alternators, and (b) "Measurement of Non-electrical Quantities", dealing extensively with the measuring techniques of a number of variables that constitute an important requirement of engineering measurement practices. The book is supplemented by ten appendices covering various aspects dealing with the art and science of electrical measurement and of relevance to some of the topics in main chapters. Other useful features of the book include an elaborate chapter-by-chapter list of symbols, worked examples, exercises and quiz questions at the end of each chapter, and extensive authors' and subject index. This book will be of interest to all students taking courses in electrical measurements as a part of a B.Tech. in electrical engineering. Professionals in the field of electrical engineering will also find the book of use.

Geomechanics and Geodynamics of Rock Masses CRC Press

This book summarizes the technical advances in recent decades and the various theories on rock excavation raised by scholars from different countries, including China and Russia. It not only focuses on rock blasting but also illustrates a number of non-blasting methods, such as mechanical excavation in detail. The

book consists of 3 parts: Basic Knowledge, Surface Excavation and Underground Excavation. It presents a variety of technical methods and data from diverse sources in the book, making it a valuable theoretical and practical reference resource for engineers, researchers and postgraduates alike.

Mining and Rock Construction Technology Desk Reference SME Quarrying and all other branches of surface mining rather than diminishing in importance have become of more and more consequence economically, industrially and particularly with the depletion of high-grade deep-mined mineral reserves. Low-grade minerals require low cost extraction and this in many cases necessitates very expensive mechanized equipment with the cost of individual units running into millions of pounds in the case of large scale operations with high productivity. There has been, and there still is, a tendency for the smaller single quarries to be amalgamated into groups with large financial resources and therefore with the ability to purchase these expensive machines so necessary to make operations viable. This in turn requires wider administrative and technical knowledge in executives of these groups and as these often handle a wide range of products from widely differing systems of working, this technical knowledge should embrace the exploitation of many different types of deposits. There is, at present, a great dearth throughout the world of such qualified executives as is apparent from advertisements of vacancies in the technical press. It would appear that these industries offer an attractive career to the widely qualified and experienced technologist in these fields. This book deals with methods of working in the surface extractive industries, quarry management and power supply-but does not deal with related ancillary processes except where these affect quarrying operations.

Surface and Underground Excavations CRC Press

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

Mechanical Boring Or Drill and Blast Tunnelling CRC Press

This text discusses factors such as mast overload, capacity of drawworks, and deviation in the hole to be drilled and the strata to be drilled. An omnibus approach to drilling techniques and problems is adopted.

Advances in Spatio-Temporal Analysis CRC Press

A comprehensive and illustrated desk reference with terms, definitions, explanations, abbreviations, trade names, quantifications, units and symbols used in rock mechanics, drilling and blasting. Now including rock mechanics as well, this updated edition presents 5127 terms, 637 symbols, 507 references, 236 acronyms, 108 formulas, 68 figures, 47 ta

Handbook of Tunnel Engineering II John Wiley & Sons

Anchoring in Rock and Soil

Anchoring in Rock and Soil International Labour Organization Includes annual cumulative index of inventors and patentees.

Australian Journal of Mining CRC Press

This comprehensive text explores the technologies and developments in excavations for any type of surface or underground excavation. The first several chapters cover unit operations, including drilling, explosives and blasting, mucking, haulage, hoisting, and supports and reinforcement. The book then describes excavation techniques for various operations, such as tunneling, raising, sinking, drifting, stoping, quarrying and surface mining, underground mining, pillar blasting, and liquidation. It also examines the design, planning, and analysis of excavations as well as the construction of surface and subsurface excavations, such as caverns. Case studies focus on heavy underground blasting during pillar recoveries.

Geomechanics and Geodynamics of Rock Masses, Volume 1 CRC Press

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.

Mining & Construction CRC Press

Spearheading the promotion of international technology transfer in the fields of mine planning, mining systems design, equipment selection and operation techniques, the International Symposium on Mine Planning and Equipment Selection is recognised by the mining society as a key annual event in highlighting developments within the field. Here in this volume, proceedings from the thirteenth annual symposium concentrate on the following major topics: * open pit and underground mine planning, modelling and design * geomechanics * mining and processing methods * design, monitoring and maintenance of mine equipment * simulation, optimization and control of technological processes * management, mine economics and financial analysis * health, safety and environmental protection.

Including 147 papers from leading experts and authorities, Mine Planning and Equipment Selection undoubtedly provides valuable information and insight for a range of engineers, scientists, researchers and consultants involved in the planning, design and operation of underground and surface mines.

[Quarrying Opencast and Alluvial Mining](#) CRC Press

This book covers the fundamentals of tunneling machine technology: drilling, tunneling, waste removal and securing. It treats methods of rock classification for the machinery concerned as well as legal issues, using numerous example projects to reflect the state of technology, as well as problematic cases and solutions. The work is structured such that readers are led from the basics via the main functional elements of tunneling machinery to the different types of machine, together with their areas of application and equipment. The result is an overview of current developments. Close cooperation among the authors involved has created a book of equal interest to experienced tunnelers and newcomers.

Engineering and Mining Journal CRC Press

This book is Volume 1 of the EUROCK 2018 proceedings.

Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018, the 2018 International Symposium of the International Society for Rock Mechanics (ISRM

2018, Saint Petersburg, Russia, 22-26 May 2018). Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology, the main topics of the book include: - Physical and mechanical properties of fractured rock (laboratory testing and rock properties, field measurements and site investigations) - Geophysics in rock mechanics - Rock mass strength and failure - Nonlinear problems in rock mechanics - Effect of joint water on the behavior of rock foundation - Numerical modeling and back analysis - Mineral resources development: methods and rock mechanics problems - Rock mechanics and underground construction in mining, hydropower industry and civil engineering - Rock mechanics in petroleum engineering - Geodynamics and monitoring of rock mass behavior - Risks and hazards - Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering. EUROCK 2018, organized by the Saint Petersburg Mining University, is a continuation of the successful series of ISRM symposia in Europe, which began in 1992 in Chester, UK.

Mining in the New Millennium - Challenges and Opportunities CRC Press

This text looks at mine planning and equipment and covers topics such as: design and planning of surface and underground mines;

geotechnical stability in surface and underground mines; and mining and the environment.

Construction in Southern Africa CRC Press

The so-called fourth dimension of a metropolis is the underground space beneath a city which typically includes structures such as tunnels, which facilitate transport and provide gas, water and other supplies. Underground space may also be utilised for living, working and recreational facilities and industrial storage. These volumes focus on underground

SME Mining Engineering Handbook, Third Edition CRC Press

The book relates experience of TBM drives in difficult geology, making use of case studies from Turkey to demonstrate the influence of the local geotechnical conditions on the selection of a tunnel boring machine and the selection of tools. There is an extensive description how various geological phenomena, such as for example transition zones, dikes, rock discontinuities, blocky ground, squeezing ground, swelling clays and high strength and abrasive rocks, can reduce the advance rate and what countermeasures can be introduced. There is also a discussion of necessary advance probing and safety measures. Since the presented practical experience from Turkey can also be applicable for other tunnel projects in difficult geology, the book represents a valuable source of knowledge for every tunneler.

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