

## Mining Engineering Books Free

Een standaardwerk. Het is tijd voor een nieuwe geschiedenis van onze democratie. Francis Fukuyama is als geen ander geschikt om deze geschiedenis op te tekenen: hij schrijft en spreekt er al tientallen jaren over. In dit boek vertelt hij hoe maatschappijen de overgang maakten van een organisatie die gebaseerd was op familie- en stamverbanden, naar een meer objectieve vorm van organisatie, gebaseerd op de politieke verhoudingen die we nu ook nog hanteren. De vormen die in de antieke cultuur zijn ontstaan, zijn nog steeds te herkennen in de manier waarop onze maatschappij is georganiseerd, en veel problemen waarmee ontwikkelingslanden en mislukte staten nu te maken hebben nepotisme, corruptie, chaos kunnen verklaard worden uit het feit dat ze de stap naar een moderne organisatievorm nooit hebben gemaakt. Fukuyama beschrijft in De oorsprong van onze politiek hoe onze democratie is begonnen. Een standaardwerk. Over Francis Fukuyama: Helder geschreven, zeer ambitieus. Een goed beargumenteerde politieke geschiedenis en filosofie. NEW YORK TIMES BOOK REVIEW Francis Fukuyama werd een wereldwijde ster met Het einde van de geschiedenis en de laatste mens en hij zou lange tijd de belangrijkste theoreticus achter het neoconservatisme blijven. Met Na het neoconservatisme nam hij afstand van deze doctrine; inmiddels heeft Fukuyama zich ontwikkeld tot een van de meest gezaghebbende stemmen op het gebied van politiek. Hij is een van de meest gevraagde sprekers ter wereld. Fukuyama werkt als hoogleraar internationale politieke economie aan de John Hopkins University.

Introductory Mining Engineering John Wiley & Sons

Run-of-mine ore processing is a method of added value in which undesirable gangue-bearing minerals are discarded to obtain the desired minerals. Mineral processing has tangible benefits including savings in freight and handling, and the recovery of metal values from the slag as well as intangible benefits such as mineral conservation, environment protection by filling the mine using gangue-bearing minerals, and energy saving. This book provides rudimentary, theoretical and operational knowledge of mineral processing along with coal characterisation and processing of ores of metallic and industrial minerals. It also explains definitions and techniques, along with basic formulas and practical examples. This book is designed for professionals in geology, mining, mineral, metallurgical and chemical engineering. The eccentric feature of this book is the introduction of simple numerical calculations for evaluation of the processes which in turn help understand the concepts with enhanced clarity and handle day-to-day operations of mineral processing plants. Therefore, it can be used both as a simple reference guide and a concise course in mineral processing.

This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1922 edition. Excerpt: ... to New York, it occurred to me to ask him if he could not reproduce the discovery shaft of the Golden Cycle, to which he agreed, and in two months made a model that was an absolute reproduction of the discovery shaft in form, texture, and color. I think this method of showing conditions can be used successfully in many cases. The gentlemen on the opposite side of the case, when once the suit was settled, were quick to acknowledge that this reproduction of the shaft would have meant their certain defeat had the case come into court. Are your sons mining engineers? Only one of my sons elected to study mining engineering, and, on the completion of his sophomore year at the Colorado School of Mines, he went on a surveying trip during the summer to North Park, where he became enthused over pure-bred stockraising and absolutely refused to go back to college. There was nothing to do but to let him follow his bent, in which I was much disappointed; but perhaps it is all for the best, as Jack is now owner of the Glendale stock-farm and has made a greater success in raising pure-bred polled Herefords than he was likely to do in mining engineering. My oldest son, Fred, was graduated as metallurgical engineer from McGill

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University and is now in Mexico. My youngest son, Harold, graduated with honors as mechanical engineer at the University of Colorado, and is engineer for the Plains Iron Works of Denver. My son-in-law, G. B. Shanklin, is an electrical engineer engaged in research work for the General Electric Company. How do you compare the facilities for education in your day with those that your sons have been able to obtain? The engineering colleges of today are so far ahead of their predecessors of forty-five years ago in personnel, apparatus, ..

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.

The aim of process calculations is to evaluate the performance of minerals and coal processing operations in terms of efficiency of the operation, grade of the final products and recovery of the required constituents. To meet these requirements, in-depth detailed calculations are illustrated in this book. This book is designed to cover all the process calculations. The method and/or steps in process calculations have been described by taking numerical examples. Process calculations illustrated in a simple and self explanatory manner based on two basic material balance equations will allow the reader to understand the contents thoroughly. Inclusion of elaborate process calculations in every chapter is the highlight of this book. This book is unique and devoted entirely to the process calculations with sufficient explanation of the nature of the calculations. This book will prove useful to all: from student to teacher, operator to engineer, researcher to designer, and process personnel to plant auditors concerned with minerals and coal processing.

Vast knowledge has been developed in the area of tunnelling in weak rocks over the years, and this book bridges an important gap by bringing all the information together for the benefit of the tunnelling Industry. In particular, tunnelling in poor conditions is a huge challenge for engineers and designers, and this book tackles all typical problems headon. Topics covered include classification approach, design approaches for site-specific grounds, a new invention on shielded tunnel boring machine, case histories, tunnel mechanics, risk engineering and management culture. OCo Based on extensive field research experiences in Himalayan region and Alps OCo Exclusive chapters on tunnelling hazards, squeezing ground conditions (a full detailed case study), swelling ground conditions, critical state rock mechanics, etc. OCo Supported by over 180 figures and 90 tables of data, and test examples (with solutions)"

The total environment in which mining takes place is the result of many physical, regional and circumstantial conditions. This is a 1986 text which deals with the assessment and control of these conditions, providing a source of ready reference for engineers and advanced students studying the mining environment. With the need for greater economy in the extraction of minerals, the search for deposits of minerals, increasing mining legislation and pressure from environmental groups, the study of mining engineering is becoming increasingly important. This book relates the mining environment to both the efficiency and safety of the production process, and to the physiological and psychological effects on personnel and the public. Each element of the environment - gas, dust, radiation, heat, water and noise - is considered in relation

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to its accompanying hazards, its sources, detection, and control measures, resulting in a detailed text for the study of the design, operation and maintenance of mines. This is the first book to examine the actual impact of physical and social engineering projects in more than fifty countries from a multidisciplinary perspective. The book brings together an international team of nearly two hundred authors from over two dozen different countries and more than a dozen different social, environmental, and engineering sciences. Together they document and illustrate with case studies, maps and photographs the scale and impacts of many megaprojects and the importance of studying these projects in historical, contemporary and postmodern perspectives. This pioneering book will stimulate interest in examining a variety of both social and physical engineering projects at local, regional, and global scales and from disciplinary and trans-disciplinary perspectives.

Principles And Practices Of Modern Coal Mining Is A Comprehensive Text Book On The Theory And Practice Of Coal Mining. It Highlights The Principles And Describes The Modern Techniques Of Surface And Underground Coal Mining Citing Examples From India And Abroad. It Deals With The Exploitation Of Coal Seams Of Different Thicknesses And Dips Occurring In A Variety Of Conditions. Emerging Technologies Of Coal Mining And Their Applications Have Also Been Amply Discussed. After An Introductory Chapter Tracing The History Of Coal Mining And The Development Of Coal Mining Industry In Different Principal Coal Producing Countries And Highlighting The Emerging Technologies Of Coal Mining The World Over, The Book Offers A Chapter By Chapter Discussion Of The State Of Art Of Underground And Surface Coal Mining Technology. Every Aspect Of Science Of Coal Mining From Geological Occurrence And Exploration To Planning And Exploitation Of Coal Seams, Including Management Of Environment Has Been Scrutinised By The Author. For The Professionals In The Coal Industry As Well As To The Planners, Researchers And Students Of Mining Engineering, The Book Will Be A Useful Reference.

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.

This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1881 edition. Excerpt: ...of Mining

Engineering, but was subsequently appointed Professor of Geology at the reduced salary 'provided for by special legislative appropriation, with the understanding that I was to have charge of the classes in Mineralogy, Geology and Crystallography, as in the previous year, and to give in addition the instruction in Economical Geology and in Mining Engineering to the Senior class without extra compensation. This arrangement was made after considerable discussion in the Board of Regents upon the general question of the advisability of attempting to keep up the organization of the School at all. Professor Langley also volunteered to give the metallurgical instruction to the Seniors without pay: Mr. Douglas made provision for the quantitative analysis of the Mining Engineering course in the Chemical Laboratory; and Mr. Joy rendered gratuitous assistance in blow-pipe analysis. This extra work bore heavily upon us all, but we carried on the instruction to the best of our ability under the unfavorable conditions. Professor Langley and myself accompanied the Senior class in the spring vacation on a visit to the mines, smelting works, and mills of Pittsburgh and vicinity, bearing our own expenses. All was done that could be done to make the school successful. At Commencement the degree of Mining Engineer was conferred upon four students. The work of the present year has been begun upon substantially the same basis as that of last year, though with some modification of details. No one, so far as I know, regards this arrangement as anything more than a temporary provision for an interval not otherwise provided for. It cannot be made permanent. The principal objections to it are three in number: It is unfair to the students; it is unfair to the...

This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1890 edition. Excerpt: ...or steel there is great waste of energy. Hysteresis may be regarded as a species of molecular magnetic friction by reason of which alternate magnetizations cause iron to be re-heated. FIG. 17. The area enclosed by the curve represents the loss due to magnetization at the given rapidity of alternations. Dr. John Hopkinson has calculated this loss in ergs per cubic cm. for a complete magnetic cycle, when values of H are between the limits 4-240 and --240. (See Table B on next page.) In a magnetic circuit the hysteresis is of small importance if an air-gap exists, and its influence decreases the greater the number of lines which pass through the air. Residual magnetism in electro-magnets is a phenomenon of hysteresis. Hysteresis in electro-magnets increases with their length. The practical elimination of hysteresis in measuring instruments which contain iron is of importance; otherwise their usefulness is impaired. The errors arising from hysteresis can be reduced by introducing the instrument into circuit only at times for observations, so that the magnetization always rises from zero to the indicated amount, or by bringing a strong magnetization into the vicinity before the measurement, for example, the spring galvanometer of Kohlrausch, in which the armature is lowered down into the coil before the reading. "Mitis" metal has

been employed by certain makers of motors in place of wrought iron for magnet cores. This, along with other "cast" wrought irons low in carbon and soft, possesses a high susceptibility, and the fact that they may be cast in suitable forms makes them desirable for the purpose. o. Influence of Temperature on Magnetization. Iron.--Up to about 3COC. the magnetization is quite independent of the...

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Many areas of mining engineering gather and use statistical information, provided by observing the actual operation of equipment, their systems, the development of mining works, surface subsidence that accompanies underground mining, displacement of rocks surrounding surface pits and underground drives and longwalls, amongst others. In addition, the actual modern machines used in surface mining are equipped with diagnostic systems that automatically trace all important machine parameters and send this information to the main producer's computer. Such data not only provide information on the technical properties of the machine but they also have a statistical character. Furthermore, all information gathered during stand and lab investigations where parts, assemblies and whole devices are tested in order to prove their usefulness, have a stochastic character. All of these materials need to be developed statistically and, more importantly, based on these results mining engineers must make decisions whether to undertake actions, connected with the further operation of the machines, the further development of the works, etc. For these reasons, knowledge of modern statistics is necessary for mining engineers; not only as to how statistical analysis of data should be conducted and statistical synthesis should be done, but also as to understanding the results obtained and how to use them to make appropriate decisions in relation to the mining operation. This book on statistical analysis and synthesis starts with a short repetition of probability theory and also includes a special section on statistical prediction. The text is illustrated with many examples taken from mining practice; moreover the tables required to conduct statistical inference are included.

Although profitable development and exploitation of natural resources has been, and still remains, the goal of many individuals and firms within the extractive industries, several new goals must also be considered, the foremost of which is the wise management of the already discovered stocks of renewable and nonrenewable natural resources. This aspect has become

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of vital importance for society as a whole. It is this dual objective - the economic feasibility on behalf of private interests, and the efficient development and utilization of natural resources as viewed from the societal point of view - that is covered in this book. The material presented is based on many published and unpublished sources, and serves to demonstrate the basic principles associated with the economics and management of mineral resources. Rather than attempting to carry on an in-depth analysis of the various topics, the author has provided a broad coverage of the basic concepts and their applications in real-life occurrences. For those interested in more intensive analysis, suggested additional selected readings and references are provided. The book is written as an introductory-level textbook in mineral economics. Advanced students in mineral engineering programs, economics, and business administration curricula, with a particular interest in economic analysis of mineral and energy activities may find this book an appropriate starting-point. Likewise, first-year graduate students in engineering programs, resource economics, mineral economics, natural resource management, environmental sciences, and law will find that the book provides a fundamental understanding of the basic concepts of mineral economics and how they relate to the general economic and management theories.

**Before You Ever Put the First Shovel in the Ground—This Book Could Be the Difference Between a Successful Mining Operation and a Money Pit** Opening a successful new mine is a vastly complex undertaking entailing several years and millions to billions of dollars. In today's world, when environmental and labor policies, regulatory compliance, and impact on the community must be factored in, you cannot afford to make a mistake. So the Society for Mining, Metallurgy & Exploration has created this road map for you. Written by two hands-on, in-the-trenches mining project managers with decades of experience who bring some of the world's most successful, profitable mines into operation on time, within budget, and ethically, *Project Management for Mining* gives you step-by-step instructions in every process you are likely to encounter. Beginning with a discussion of mining ethics and governance, this clearly written handbook walks you through all the project management steps—defining the scope, performing prefeasibility and feasibility studies, gaining societal acceptance, minimizing the impact and risks, creating workable schedules and budgets, setting in place the project execution plan, assembling the human resources, hiring the contractors, and establishing project controls—and then on into the delivery of the engineering and design, construction, progress reviews, pre-launch commissioning, and ramping up for operation. Each chapter includes several useful aids such as figures, checklists, and flowcharts to guide you through every step, from conception through successful opening.

This new edition has been completely revised to reflect the notable innovations in mining engineering and the remarkable developments in the science of rock mechanics and the practice of rock engineering that have taken place over the last two decades. Although "Rock Mechanics for Underground Mining" addresses many of the rock mechanics issues that arise in underground mining engineering, it is not a text exclusively for mining applications. Based on extensive professional research and teaching experience, this book will provide an authoritative and comprehensive text for final year undergraduates and commencing postgraduate students. For professional practitioners, not only will it be of interests to mining and geological engineers, but also to civil engineers, structural mining geologists and geophysicists as a standard work for professional reference purposes.

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

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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.

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

Provides the tools needed to analyze and solve acid drainage problems Featuring contributions from leading experts in science and engineering, this book explores the complex biogeochemistry of acid mine drainage, rock drainage, and acid sulfate soils. It describes how to predict, prevent, and remediate the environmental impact of acid drainage and the oxidation of sulfides, offering the latest sampling and analytical methods. Moreover, readers will discover new approaches for recovering valuable resources from acid mine drainage, including bioleaching. *Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils* reviews the most current findings in the field, offering new insights into the underlying causes as well as new tools to minimize the harm of acid drainage: Part I: Causes of Acid Mine Drainage, Rock Drainage and Sulfate Soils focuses on the biogeochemistry of acid drainage in different environments. Part II: Assessment of Acid Mine Drainage, Rock Drainage and Sulfate Soils covers stream

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characterization, aquatic and biological sampling, evaluation of aquatic resources, and some unusual aspects of sulfide oxidation. Part III: Prediction and Prevention of Acid Drainage discusses acid-base accounting, kinetic testing, block modeling, petrology, and mineralogy studies. It also explains relevant policy and regulations. Part IV: Remediation of Acid Drainage, Rock Drainage and Sulfate Soils examines both passive and active cleanup methods to remediate acid drainage. Case studies from a variety of geologic settings highlight various approaches to analyzing and solving acid drainage problems. Replete with helpful appendices and an extensive list of web resources, Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils is recommended for mining engineers and scientists, regulatory officials, environmental scientists, land developers, and students.

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

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