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- In 2003, four mining shares rose over four times in price, with one gaining ten times.- In just the first two months of 2004, 26 mining shares increased more than 20%, with five shares doubling.- Merrill Lynch's World Mining Trust is the UK's best performing fund over the past three years, having risen by over 200 per cent. But is the mining boom about to end? Not according to this book, by Michael Coulson, Chairman of the Association of Mining Analysts. Coulson argues that, if anything, we are still in the early stages of prolonged strength in mining stocks and despite what some commentators are saying, the boom is far from over. FROM THE BACK COVER The prospect of instant riches gives the mining sector an obvious glamour. And when the mining sector begins to run it can be an awesome sight and the excitement generated can be every bit as seductive and heady as that which enveloped markets during the

internet boom. But due to the counter-cyclical nature of many mining stocks, they can also offer a valuable refuge when stock markets turn down. In this book, Michael Coulson gives a masterly overview of the sector, explains both the rewards and the pitfalls of investing in mining shares and argues convincingly that mining should once again form a core sector for all investors. The book is for anyone interested in mining, and particularly mining as an investment. Whilst it contains material which will be useful to even experienced followers of the sector, its main target is those who are interested in mining but perhaps not particularly familiar with the sector, and would like to know more. All the subjects are covered that are fundamental to acquiring sufficient knowledge about the mining sector to invest in it with confidence. While the mining s RECOMMENDED BY DOLLY PARTON IN PEOPLE MAGAZINE! A NEW YORK TIMES BESTSELLER A USA TODAY BESTSELLER A LOS ANGELES TIMES BESTSELLER A PBS BOOK PICK The bestselling historical fiction novel from Kim Michele Richardson, this is a novel following Cussy Mary, a packhorse librarian and her quest to bring books to the Appalachian community she loves, perfect for readers of William Kent Kreuger and Lisa Wingate. The perfect addition to your next book club! The hardscrabble folks of Troublesome Creek have to scrap for everything—everything except books, that is. Thanks to Roosevelt's Kentucky Pack Horse Library Project, Troublesome's got its very own traveling librarian, Cussy Mary Carter. Cussy's not only a book woman, however, she's also the last of her kind, her skin a shade of blue unlike most anyone else. Not everyone is keen on Cussy's family or the Library Project, and a Blue is often blamed for any whiff of trouble. If Cussy wants to bring the joy of books to the hill folks, she's going to have to confront prejudice as old as the Appalachias and suspicion as deep as the holler. Inspired by the true blue-skinned people of Kentucky and the brave and dedicated Kentucky Pack Horse library service of the 1930s, *The Book Woman of Troublesome Creek* is a story of raw courage, fierce strength, and one woman's belief that books can carry us anywhere—even back home. Look for *The Book Woman's Daughter*, the next novel from Kim Michele Richardson coming in May 2022. Other Bestselling Historical Fiction from Sourcebooks Landmark: *The Mystery of Mrs. Christie* by Marie Benedict *The Engineer's Wife* by Tracey Enerson Wood *Sold on a Monday* by Kristina McMorris 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. “Everything” sums up what must be considered for a properly documented property evaluation. Less than 30% of the projects that are developed in the minerals industry yield the return on investment that was projected from the project feasibility studies. The tools described in this handbook will greatly improve the probability of meeting your projections and minimizing project execution capital cost blowout that has become so prevalent in this industry in recent years. Mineral Property Evaluation provides guidelines to follow in performing mineral property feasibility and evaluation studies and due diligence, and in preparing proper documents for bankable presentations. It highlights the need for a consistent, systematic methodology in performing evaluation and feasibility work. The objective of a feasibility and evaluation study should be to assess the value of the undeveloped or developed mineral property and to convey these findings to the company that is considering applying technical and physical changes to bring the property into production of a mineral product. The analysis needs to determine the net present worth returned to the company for investing in these changes and to reach that decision point as early as possible and with the least amount of money spent on the evaluation study. All resources are not reserves, nor are all minerals an ore. The successful conclusion of any property evaluation depends on the development, work, and conclusions of the project team. The handbook has a diverse audience:

- Professionals in the minerals industry that perform mineral property evaluations.
- Companies that have mineral properties and perform mineral property feasibility studies and evaluations or are buying properties based on property evaluation.
- Financial institutions, both domestic and overseas, that finance or raise capital for the minerals industry.
- Consulting firms and architectural and engineering contractors that utilize mineral property feasibility studies and need standards to follow.
- And probably the most important, the mining and geological engineering students and geology and economic geology students that need to learn the standards that they should follow throughout their careers.

This book contains a wealth of information and analysis relating to mineral royalties. Primary information includes royalty legislation from over forty nations. Analysis is comprehensive and addresses issues of importance to diverse stakeholders including government policymakers, tax administrators, society, local communities and mining companies. Extensive footnotes and citations provide a valuable resource for researchers. Prepare for your Professional Engineer exam with this 8th edition of SME's study guide. This handy workbook lets you know what to expect and provides the opportunity to practice your test-taking skills. The text covers what licensing can do for you, outlines the engineering licensure process, highlights the steps to licensure, summarizes the application process, and provides test-taking strategies specific to the PE exam. The text also includes a chapter on ethics for professional engineers and details the rules of professional conduct from the National Council of Examiners for Engineering and Surveying (NCEES). The Study Guide provides the important references that should be studied for the PE exam as well as a list of other helpful resources. Perhaps the most useful element is a sample test, including the solutions, that is similar in content and format to the actual Principles and Practice of Engineering

licensure exam. Although the practice exam cannot include all the possible subject matter that may appear on the actual exam, you'll find it beneficial to practice answering the types of questions that will appear on the test. The Society for Mining, Metallurgy & Exploration (SME) advances the worldwide mining and minerals community through information exchange and professional development. SME plays a central role in the licensure process for professional engineers through its Professional Engineers Exam Committee and its affiliation with NCEES. Build a solid foundation in data analysis skills and pursue a coveted Data+ certification with this intuitive study guide *CompTIA Data+ Study Guide: Exam DA0-001* delivers easily accessible and actionable instruction for achieving data analysis competencies required for the job and on the *CompTIA Data+* certification exam. You'll learn to collect, analyze, and report on various types of commonly used data, transforming raw data into usable information for stakeholders and decision makers. With comprehensive coverage of data concepts and environments, data mining, data analysis, visualization, and data governance, quality, and controls, this Study Guide offers: All the information necessary to succeed on the exam for a widely accepted, entry-level credential that unlocks lucrative new data analytics and data science career opportunities 100% coverage of objectives for the NEW *CompTIA Data+* exam Access to the Sybex online learning resources, with review questions, full-length practice exam, hundreds of electronic flashcards, and a glossary of key terms Ideal for anyone seeking a new career in data analysis, to improve their current data science skills, or hoping to achieve the coveted *CompTIA Data+* certification credential, *CompTIA Data+ Study Guide: Exam DA0-001* provides an invaluable head start to beginning or accelerating a career as an in-demand data analyst. *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. In the world of mining, both mining and asset management professionals often face difficult challenges to improve plant and fleet reliability or cost. Over the years the mining industry has developed complicated systems and processes to deal with the seemingly complex problems, but in the real world of maintenance, to be truly effective, organizations must first embed the practical, culture-based routines that simplify work so that large groups of people can align and become effective. After more than thirty years in mining, Gerard Wood has experienced firsthand the persistent maintenance problems that can occur. Throughout these years he has developed effective methods for solving the common problems by developing the required culture of ownership and care that will ensure reliable, low-cost equipment performance. In *Simplifying Mining Maintenance*, he presents two simple models for reliable maintenance management, as well as actionable solutions to common problems causing unscheduled downtime events, increased scheduled downtime, cost concerns, people problems, and poor transition from projects to operations. Having the best

maintenance organization in the world is possible--by getting back to basics with simple, culture-focused routines that people can understand and implement to ensure sustainable equipment performance. The development of e-learning systems, particularly, web-based education systems, has increased exponentially in recent years. Following this line, one of the most promising areas is the application of knowledge extraction. As one of the first of its kind, this book presents an introduction to e-learning systems, data mining concepts and the interaction between both areas. Clinical Data-Mining (CDM) involves the conceptualization, extraction, analysis, and interpretation of available clinical data for practice knowledge-building, clinical decision-making and practitioner reflection. Depending upon the type of data mined, CDM can be qualitative or quantitative; it is generally retrospective, but may be meaningfully combined with original data collection. Any research method that relies on the contents of case records or information systems data inevitably has limitations, but with proper safeguards these can be minimized. Among CDM's strengths however, are that it is unobtrusive, inexpensive, presents little risk to research subjects, and is ethically compatible with practitioner value commitments. When conducted by practitioners, CDM yields conceptual as well as data-driven insight into their own practice- and program-generated questions. This pocket guide, from a seasoned practice-based researcher, covers all the basics of conducting practitioner-initiated CDM studies or CDM doctoral dissertations, drawing extensively on published CDM studies and completed CDM dissertations from multiple social work settings in the United States, Australia, Israel, Hong Kong and the United Kingdom. In addition, it describes consulting principles for researchers interested in forging collaborative university-agency CDM partnerships, making it a practical tool for novice practitioner-researchers and veteran academic-researchers alike. As such, this book is an exceptional guide both for professionals conducting practice-based research as well as for social work faculty seeking an evidence-informed approach to practice-research integration. Prepare for your Professional Engineering exam with this new edition of SME's Study Guide for the Professional Licensure of Mining and Mineral Processing Engineers. This handy workbook lets you know what to expect and provides an opportunity to practice your test-taking skills. The text covers the history of professional licensure and the Mining and Minerals Processing exam, explains what licensing can do for you, outlines the engineering licensure process, highlights the six steps to licensure, covers the application process, includes the National Council of Examiners for Engineering and Surveying Model Rules of Professional Conduct and NEEES publications, and describes the testing process. Perhaps the most useful element is a sample test, complete with questions and answers, that is similar in content and format to an actual principles and practice (PE) licensure exam. **NEW YORK TIMES BESTSELLER • "It's Lovecraft meets the Brontës in Latin America, and after a slow-burn start Mexican Gothic gets seriously weird."**—The Guardian **IN DEVELOPMENT AS A HULU ORIGINAL LIMITED SERIES PRODUCED BY KELLY RIPA AND MARK CONSUELOS • WINNER OF THE LOCUS AWARD • NOMINATED FOR THE BRAM STOKER AWARD ONE OF THE BEST BOOKS OF THE YEAR:** The New Yorker, Vanity Fair, NPR, The Washington Post, Tordotcom, Marie Claire, Vox, Mashable, Men's Health, Library Journal, Book Riot, LibraryReads An isolated mansion. A

chillingly charismatic aristocrat. And a brave socialite drawn to expose their treacherous secrets. . . . From the author of *Gods of Jade and Shadow* comes “a terrifying twist on classic gothic horror” (Kirkus Reviews) set in glamorous 1950s Mexico. After receiving a frantic letter from her newly-wed cousin begging for someone to save her from a mysterious doom, Noemí Taboada heads to High Place, a distant house in the Mexican countryside. She’s not sure what she will find—her cousin’s husband, a handsome Englishman, is a stranger, and Noemí knows little about the region. Noemí is also an unlikely rescuer: She’s a glamorous debutante, and her chic gowns and perfect red lipstick are more suited for cocktail parties than amateur sleuthing. But she’s also tough and smart, with an indomitable will, and she is not afraid: Not of her cousin’s new husband, who is both menacing and alluring; not of his father, the ancient patriarch who seems to be fascinated by Noemí; and not even of the house itself, which begins to invade Noemí’s dreams with visions of blood and doom. Her only ally in this inhospitable abode is the family’s youngest son. Shy and gentle, he seems to want to help Noemí, but might also be hiding dark knowledge of his family’s past. For there are many secrets behind the walls of High Place. The family’s once colossal wealth and faded mining empire kept them from prying eyes, but as Noemí digs deeper she unearths stories of violence and madness. And Noemí, mesmerized by the terrifying yet seductive world of High Place, may soon find it impossible to ever leave this enigmatic house behind. “It’s as if a supernatural power compels us to turn the pages of the gripping Mexican Gothic.”—The Washington Post “Mexican Gothic is the perfect summer horror read, and marks Moreno-Garcia with her hypnotic and engaging prose as one of the genre’s most exciting talents.”—Nerdist “A period thriller as rich in suspense as it is in lush ’50s atmosphere.”—Entertainment Weekly

Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets. Prepare for the Mining/Mineral Professional Engineering Examination with this new edition of SME's Study Guide for the Professional Registration of Mining/Mineral Engineers. This handy workbook lets you know what to expect and provides an opportunity to apply your test-taking skills. The text covers the history of professional certification and this exam, explains what registration can do for you, outlines the engineering registration process, highlights the six steps to registration, covers the application process, includes NCEES model rules of professional conduct and NCEES publications, and describes the testing process. Perhaps the most useful element is a sample test, complete with answers, that is similar in content and format to an actual certification exam. The most thorough and up-to-date introduction to data mining techniques using SAS Enterprise Miner. The Sample, Explore, Modify, Model, and Assess (SEMMA) methodology of SAS Enterprise Miner is an extremely valuable analytical tool for making critical business and marketing decisions. Until now, there has been no single, authoritative book that explores every node relationship and pattern that is a part of the Enterprise Miner software with regard to SEMMA design and data mining analysis. *Data Mining Using SAS Enterprise Miner* introduces readers to a wide variety of data mining techniques and explains the purpose of-and reasoning behind-every node that is a part of the Enterprise Miner software. Each chapter begins with a short introduction to the assortment of statistics that is generated from the various nodes in SAS Enterprise Miner v4.3, followed by detailed explanations of configuration

settings that are located within each node. Features of the book include: The exploration of node relationships and patterns using data from an assortment of computations, charts, and graphs commonly used in SAS procedures A step-by-step approach to each node discussion, along with an assortment of illustrations that acquaint the reader with the SAS Enterprise Miner working environment Descriptive detail of the powerful Score node and associated SAS code, which showcases the important of managing, editing, executing, and creating custom-designed Score code for the benefit of fair and comprehensive business decision-making Complete coverage of the wide variety of statistical techniques that can be performed using the SEMMA nodes An accompanying Web site that provides downloadable Score code, training code, and data sets for further implementation, manipulation, and interpretation as well as SAS/IML software programming code This book is a well-crafted study guide on the various methods employed to randomly sample, partition, graph, transform, filter, impute, replace, cluster, and process data as well as interactively group and iteratively process data while performing a wide variety of modeling techniques within the process flow of the SAS Enterprise Miner software. Data Mining Using SAS Enterprise Miner is suitable as a supplemental text for advanced undergraduate and graduate students of statistics and computer science and is also an invaluable, all-encompassing guide to data mining for novice statisticians and experts alike. This completely updated study guide textbook is written to support the formal training required to become certified in clinical informatics. The content has been extensively overhauled to introduce and define key concepts using examples drawn from real-world experiences in order to impress upon the reader the core content from the field of clinical informatics. The book groups chapters based on the major foci of the core content: health care delivery and policy; clinical decision-making; information science and systems; data management and analytics; leadership and managing teams; and professionalism. The chapters do not need to be read or taught in order, although the suggested order is consistent with how the editors have structured their curricula over the years. Clinical Informatics Study Guide: Text and Review serves as a reference for those seeking to study for a certifying examination independently or periodically reference while in practice. This includes physicians studying for board examination in clinical informatics as well as the American Medical Informatics Association (AMIA) health informatics certification. This new edition further refines its place as a roadmap for faculty who wish to go deeper in courses designed for physician fellows or graduate students in a variety of clinically oriented informatics disciplines, such as nursing, dentistry, pharmacy, radiology, health administration and public health. This text takes a focused and comprehensive look at mining data represented as a graph, with the latest findings and applications in both theory and practice provided. Even if you have minimal background in analyzing graph data, with this book you'll be able to represent data as graphs, extract patterns and concepts from the data, and apply the methodologies presented in the text to real datasets. There is a misprint with the link to the accompanying Web page for this book. For those readers who would like to experiment with the techniques found in this book or test their own ideas on graph data, the Web page for the book should be <http://www.eecs.wsu.edu/MGD>. Opencast mines may not be as dangerous as underground mines, but they should respect a wide range of provisions in order to minimise safety and health

risks to workers and people living nearby. This code is intended for people responsible for occupational safety and health in opencast mining. Earth Science Quick Study Guide & Workbook: Trivia Questions Bank, Worksheets to Review Homeschool Notes with Answer Key PDF (Earth Science Study Guide with Answer Key for Self-Teaching/Learning) includes worksheets to solve problems with hundreds of trivia questions. "Earth Science Study Guide" with answer key PDF covers basic concepts and analytical assessment tests. "Earth Science Question Bank" PDF book helps to practice workbook questions from exam prep notes. Earth science quick study guide with answers includes self-learning guide with verbal, quantitative, and analytical past papers quiz questions. Earth Science trivia questions and answers PDF download, a book to review questions and answers on chapters: Agents of erosion and deposition, atmosphere, atmosphere composition, atmosphere layers, earth models and maps, earthquakes, energy resources, minerals and earth crust, movement of ocean water, oceanography: ocean water, oceans exploration, oceans of world, planets facts, restless earth: plate tectonics, rocks and minerals mixtures, solar system, space astronomy, space science, stars galaxies and universe, tectonic plates, temperature, weather and climate tests for school and college revision guide. Earth Science workbook PDF download with free sample book covers beginner's questions, textbook's study notes to practice worksheets. Science quick study guide PDF includes high school workbook questions to practice worksheets for exam. "Earth Science Workbook" PDF, a quick study guide with chapters' notes for competitive exam. "Earth Science Worksheets" PDF to review problem solving exam tests from science practical and textbook's chapters as: Chapter 1: Agents of Erosion and Deposition Worksheet Chapter 2: Atmosphere Worksheet Chapter 3: Atmosphere Composition Worksheet Chapter 4: Atmosphere Layers Worksheet Chapter 5: Earth Models and Maps Worksheet Chapter 6: Earthquakes Worksheet Chapter 7: Energy Resources Worksheet Chapter 8: Minerals and Earth Crust Worksheet Chapter 9: Movement of Ocean Water Worksheet Chapter 10: Oceanography: Ocean Water Worksheet Chapter 11: Oceans Exploration Worksheet Chapter 12: Oceans of World Worksheet Chapter 13: Planets Facts Worksheet Chapter 14: Restless Earth: Plate Tectonics Worksheet Chapter 15: Rocks and Minerals Mixtures Worksheet Chapter 16: Solar System Worksheet Chapter 17: Space Astronomy Worksheet Chapter 18: Space Science Worksheet Chapter 19: Stars Galaxies and Universe Worksheet Chapter 20: Tectonic Plates Worksheet Chapter 21: Temperature Worksheet Chapter 22: Weather and Climate Worksheet Solve "Agents of Erosion and Deposition Study Guide" PDF, question bank 1 to review worksheet: angle of repose, glacial deposits types, glaciers and landforms carved, physical science, rapid mass movement, slow mass movement. Solve "Atmosphere Study Guide" PDF, question bank 2 to review worksheet: air pollution and human health, atmospheric pressure and temperature, cleaning up air pollution, composition of atmosphere, earth layers formation, energy in atmosphere, global winds, human caused pollution sources, layers of atmosphere, ozone hole, physical science, primary pollutants, solar energy, wind and air pressure, winds storms. Solve "Atmosphere Composition Study Guide" PDF, question bank 3 to review worksheet: composition of atmosphere, energy in atmosphere, human caused pollution sources, layers of atmosphere, ozone hole, wind and air pressure. Solve "Atmosphere Layers Study Guide" PDF, question bank 4 to review

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methods for using R in applications from academia to industry to extract knowledge from vast amounts of data. Readers will find this book a valuable guide to the use of R in tasks such as classification and prediction, clustering, outlier detection, association rules, sequence analysis, text mining, social network analysis, sentiment analysis, and more. Data mining techniques are growing in popularity in a broad range of areas, from banking to insurance, retail, telecom, medicine, research, and government. This book focuses on the modeling phase of the data mining process, also addressing data exploration and model evaluation. With three in-depth case studies, a quick reference guide, bibliography, and links to a wealth of online resources, R and Data Mining is a valuable, practical guide to a powerful method of analysis. Presents an introduction into using R for data mining applications, covering most popular data mining techniques Provides code examples and data so that readers can easily learn the techniques Features case studies in real-world applications to help readers apply the techniques in their work Unstructured Mining Approaches to Solve Complex Scientific Problems As the volume of scientific data and literature increases exponentially, scientists need more powerful tools and methods to process and synthesize information and to formulate new hypotheses that are most likely to be both true and important. Accelerating Discovery: Mining Unstructured Information for Hypothesis Generation describes a novel approach to scientific research that uses unstructured data analysis as a generative tool for new hypotheses. The author develops a systematic process for leveraging heterogeneous structured and unstructured data sources, data mining, and computational architectures to make the discovery process faster and more effective. This process accelerates human creativity by allowing scientists and inventors to more readily analyze and comprehend the space of possibilities, compare alternatives, and discover entirely new approaches. Encompassing systematic and practical perspectives, the book provides the necessary motivation and strategies as well as a heterogeneous set of comprehensive, illustrative examples. It reveals the importance of heterogeneous data analytics in aiding scientific discoveries and furthers data science as a discipline. "A vivid historical account...Thompson shines in giving a sense of what it means to love a place that's been designated a 'sacrifice zone.'" ? —PUBLISHERS WEEKLY Award-winning investigative environmental journalist Jonathan P. Thompson digs into the science, politics, and greed behind the 2015 Gold King Mine disaster, and unearths a litany of impacts wrought by a century and a half of mining, energy development, and fracking in southwestern Colorado. Amid these harsh realities, Thompson explores how a new generation is setting out to make amends. JONATHAN THOMPSON is a native Westerner with deep roots in southwestern Colorado. He has been an environmental journalist focusing on the American West since he signed on as reporter and photographer at the Silverton Standard & the Miner newspaper in 1996. He has worked and written for High Country News for over a decade, serving as editor-in-chief from 2007 to 2010. He was a Ted Scripps fellow in environmental journalism at the University of Colorado in Boulder, and in 2016 he was awarded the Society of Environmental Journalists' Outstanding Beat Reporting, Small Market. He currently lives in Bulgaria with his wife Wendy and daughters Lydia and Elena. Chapter 7. Case Study : Comparing Twitter Archives; Getting the Data and Distribution of Tweets; Word Frequencies; Comparing Word Usage; Changes in Word Use; Favorites and

Retweets; Summary; Chapter 8. Case Study : Mining NASA Metadata; How Data Is Organized at NASA; Wrangling and Tidying the Data; Some Initial Simple Exploration; Word Co-occurrences and Correlations; Networks of Description and Title Words; Networks of Keywords; Calculating tf-idf for the Description Fields; What Is tf-idf for the Description Field Words?; Connecting Description Fields to Keywords; Topic Modeling. 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. World coal production will increase up to 2040 and world energy consumption will be very much dependent on coal. For a better planning of coal mining operations, it is essential to know the strength, cuttability and workability of coal, which are interrelated. The main objective of the book is to combine the research studies and compile the book oriented to the coal industry, research students, practicing engineers, and coal mine panning teams. Key Features Covers all the subjects related to coal properties, mining and excavation in one book Presents a summary of physical and mechanical properties of coal belonging to a wide range of countries Includes typical examples of using physical and mechanical of coal in mine planning and in its industrial applications Explains use of cuttability characteristics of coal Describes planning of coal production using ploughs, shearers and surface miners 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 Data mining is well on its way to becoming a recognized discipline in the overlapping areas of IT, statistics, machine learning, and AI. Practical Data Mining for Business presents a user-friendly approach to data mining methods, covering the typical uses to which it is applied. The methodology is complemented by case studies to create a versatile reference book, allowing readers to look for specific methods as well as for specific applications. The book is formatted to allow statisticians, computer scientists, and economists to cross-reference from a particular application or method to sectors of interest.

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