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Coal Geology - Larry J. Thomas 2002-10-30 Coal Geology provides a complete integrated handbook on coal and all its properties, covering the physical and chemical properties of coal as well as coal petrology. It describes the age and occurence of coal; coal sampling and analysis; coal exploration; geophysics and hydrogeology of coal and coal mining techniques. It also discusses environmental concerns and computer technology, and includes an update on global coal reserves and production figures. First reference book to cover all aspects of coal geology in one volume Includes current thinking on environmental issues Presents a useful synopsis of the alternative uses of coal as a fuel Contains the distribution and reserves of coal deposits worldwide Offers a summary of the use of computing in coal studies, as well as coal sales and marketing opportunities Includes International Standards listings This up-to-date handbook successfully bridges the gap between academic aspects of coal geology and the practical role of geology in the coal industry and will be invaluable for all professionals and students in coal geology, geotechnical and mining engineering, and environmental science.

Linear and Integer Optimization - Gerard Sierksma 2015-05-01
Presenting a strong and clear relationship between theory and practice, Linear and Integer Optimization: Theory and Practice is divided into two main parts. The first covers the theory of linear and integer optimization, including both basic and advanced topics. Dantzig's simplex algorithm, duality, sensitivity analysis, integer optimization models

Mining goes Digital - Christoph Mueller 2019-05-22
The conferences on 'Applications for Computers and Operations Research in the Minerals Industry' (APCOM) initially focused on the optimization of geostatistics and resource estimation. Several standard methods used in these fields were presented in the early days of APCOM. While geostatistics remains an important part, information technology has emerged, and nowadays APCOM not only focuses on geostatistics and resource estimation, but has broadened its horizon to Information and Communication Technology (ICT) in the mineral industry. Mining Goes Digital is a collection of 90 high quality, peer reviewed papers covering recent ICT-related developments in: - Geostatistics and Resource Estimation - Mine Planning - Scheduling and Dispatch - Mine Safety and Mine Operation - Internet of Things, Robotics - Emerging Technologies - Synergies from other industries - General aspects of Digital Transformation in Mining Mining Goes Digital will be of interest to professionals and academics involved or interested in the above-mentioned areas.

Mine Planning and Equipment Selection 1996 - L.A. Ayres de Silva 1996-01-01
A collection of 125 papers on mine planning and selection of equipment, covering such topics as: design and planning of surface and undergroung mines; planning and equipment selection for difficult mining conditions; equipment selection procedures; and mine and equipment information systems.

International Mining Forum 2004, New Technologies in Underground Mining, Safety in Mines - Jerzy Kicki 2004-01-01
This book comprises technical papers that were presented at the International Mining Forum 2004. This event aims to bring together scientists and engineers in mining, rock mechanics, and computer engineering, with a view to explore and discuss international developments in the field. The book is addressed to researchers and professionals who work i

Advanced Intelligent Systems for Sustainable Development (AI2SD'2020) - Janusz Kacprzyk 2022
This book publishes the best papers accepted and presented at the 3rd edition of the International Conference on Advanced Intelligent Systems for Sustainable Development Applied to Agriculture, Energy, Health, Environment, Industry, Education, Economy, and Security (AI2SD2020). This conference is one of the biggest amalgamations of eminent researchers, students, and delegates from both academia and industry where the collaborators have an interactive access to emerging technology and approaches globally. In this book, readers find the latest ideas addressing technological issues relevant to all areas of the social and human sciences for sustainable development. Due to the nature of the conference with its focus on innovative ideas and developments, the book provides the ideal scientific and brings together very high-quality chapters written by eminent researchers from different disciplines, to discover the most recent developments in scientific research.

Mines Against Japan - Ellis A. Johnson 1973
Details the submarine, surface, and aerial mining campaign against Japan in World War II. Includes statistics on mines laid, casualties, and aircraft performance.

Airline Operations and Scheduling - Massoud Bazargan 2016-03-23
Operations research techniques are extremely important tools for planning airline operations. However, much of the technical literature on airline optimization models is highly specialized and accessible only to a limited audience. Allied to this there is a concern among the operations research community that the materials offered in OR courses at MBA or senior undergraduate business level are too abstract, outdated, and at times irrelevant to today's fast and dynamic airline industry. This book demystifies the operations and scheduling environment, presenting simplified and easy-to-understand models, applied to straightforward and practical examples. After introducing the key issues confronting operations and scheduling within airlines, Airline Operations and Scheduling goes on to provide an objective review of the various optimization models adopted in practice. Each model provides airlines with efficient solutions to a range of scenarios, and is accompanied by case studies similar to those experienced by commercial airlines. Using unique source material and combining interviews with alumni working at operations and scheduling departments of various airlines, this solution-orientated approach has been used on many courses with outstanding feedback. As well as having been comprehensively updated, this second edition of Airline Operations and Scheduling adds new chapters on fuel management systems, baggage handling, aircraft maintenance planning and aircraft boarding strategies. The readership includes graduate and undergraduate business, management, transportation, and engineering students; airlines training and acquainting new recruits with operations planning and scheduling processes; general aviation, flight school, International Air Transport Association (IATA), and International Civil Aviation Organization (ICAO) training course instructors; executive jet, chartered flight, air-cargo and package delivery companies, and airline consultants.

Report Including the Reports of the Secretary of Defense, Secretary of the Army, Secretary of the Navy, Secretary of the Air Force - United States. Department of Defense 1955

Equipment Selection for Mining: With Case

Studies - Christina N. Burt 2018-03-02
This unique book presents innovative and state-of-the-art computational models for determining the optimal truck–loader selection and allocation strategy for use in large and complex mining operations. The authors provide comprehensive information on the methodology that has been developed over the past 50 years, from the early ad hoc spreadsheet approaches to today's highly sophisticated and accurate mathematical-based computational models. The authors' approach is motivated and illustrated by real case studies provided by our industry collaborators. The book is intended for a broad audience, ranging from mathematicians with an interest in industrial applications to mining engineers who wish to utilize the most accurate, efficient, versatile and robust computational models in order to refine their equipment selection and allocation strategy. As materials handling costs represent a significant component of total costs for mining operations, applying the optimization methodology developed here can substantially improve their competitiveness

Springer Handbook of Robotics - Bruno Siciliano 2016-07-27
The second edition of this handbook provides a state-of-the-art overview on the various aspects in the rapidly developing field of robotics. Reaching for the human frontier, robotics is vigorously engaged in the growing challenges of new emerging domains. Interacting, exploring, and working with humans, the new generation of robots will increasingly touch people and their lives. The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline. The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics. The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for Excellence in Physical Sciences & Mathematics as well as the organization's Award for Engineering & Technology. The second edition of the handbook, edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors, continues to be an authoritative reference for robotics researchers, newcomers to the field, and scholars from related disciplines. The contents have been restructured to achieve four main objectives: the enlargement of foundational topics for robotics, the enlightenment of design of various types of robotic systems, the extension of the treatment on robots moving in the environment, and the enrichment of advanced robotics applications. Further to an extensive update, fifteen new chapters have been introduced on emerging topics, and a new generation of authors have joined the handbook's team. A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos, which bring valuable insight into the contents. The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app. Springer Handbook of Robotics Multimedia Extension Portal: http://handbookofrobotics.org/

Airline Operations and Scheduling - Massoud Bazargan 2016-03-23
Operations research techniques are extremely important tools for planning airline operations. However, much of the technical literature on airline optimization models is highly specialized and accessible only to a limited audience. Allied to this there is a concern among the operations research community that the materials offered in OR courses at MBA or senior undergraduate business level are too abstract, outdated, and at times irrelevant to today's fast and dynamic airline industry. This book demystifies the operations and scheduling environment, presenting simplified and easy-to-understand models, applied to straightforward and practical examples. After introducing the key issues confronting operations and scheduling within airlines, Airline Operations and Scheduling goes on to provide an objective review of the various optimization models adopted in practice. Each model provides airlines with efficient solutions to a range of scenarios, and is accompanied by case studies similar to those experienced by commercial airlines. Using unique source material and combining interviews with alumni working at operations and scheduling departments of various airlines, this solution-orientated approach has been used on many

courses with outstanding feedback. As well as having been comprehensively updated, this second edition of Airline Operations and Scheduling adds new chapters on fuel management systems, baggage handling, aircraft maintenance planning and aircraft boarding strategies. The readership includes graduate and undergraduate business, management, transportation, and engineering students; airlines training and acquainting new recruits with operations planning and scheduling processes; general aviation, flight school, International Air Transport Association (IATA), and International Civil Aviation Organization (ICAO) training course instructors; executive jet, chartered flight, air-cargo and package delivery companies, and airline consultants.

Short-term Production Scheduling and Equipment Dispatching for Underground Metal Mines - Chabva M. Tsomondo 1996
An integrated approach for short-tenn production planning and equipment dispatching for underground metal mines is proposed in this thesis. The salient factors influencing a shift production schedule are controlled by both management and the mine environment. The mine system constraints reflect the inter-play of geological, geomechanical and economic factors. The management goals are considered with respect to the operating policies of draw-point and ore-bin control, and ground control, equipment allocation and ventilation systems. The integration of these various issues constitutes the mining system, which requires flexibility to achieve the production goals under changing mining environments. [...].
The Coal Miner - 1983

Bioinspired Heuristics for Optimization - El-Ghazali Talbi 2018-08-18
This book presents recent research on bioinspired heuristics for optimization. Learning-based and black-box optimization exhibit some properties of intrinsic parallelization, and can be used for various optimizations problems. Featuring the most relevant work presented at the 6th International Conference on Metaheuristics and Nature Inspired Computing, held at Marrakech (Morocco) from 27th to 31st October 2016, the book presents solutions, methods, algorithms, case studies, and software.

It is a valuable resource for research academics and industrial practitioners.
Integer Programming and Related Areas - R.v. Randow 2012-12-06

21st Application of Computers and Operations Research in the Mineral Industry - Alfred Weiss 1989

CIM Bulletin - Canadian Institute of Mining, Metallurgy and Petroleum 2004

Coal Miner - 1982

Smart Applications and Data Analysis - Mohamed Hamlich 2020-06-04
This volume constitutes refereed proceedings of the Third International Conference on Smart Applications and Data Analysis, SADASC 2020, held in Marrakesh, Morocco. Due to the COVID-19 pandemic the conference has been postponed to June 2020. The 24 full papers and 3 short papers presented were thoroughly reviewed and selected from 44 submissions. The papers are organized according to the following topics: ontologies and meta modeling; cyber physical systems and block-chains; recommender systems; machine learning based applications; combinatorial optimization; simulations and deep learning.
Handbook of Approximation Algorithms and Metaheuristics Teofilo F. Gonzalez 2007-05-15
Delineating the tremendous growth in this area, the Handbook of Approximation Algorithms and Metaheuristics covers fundamental, theoretical topics as well as advanced, practical applications. It is the first book to comprehensively study both approximation algorithms and metaheuristics. Starting with basic approaches, the handbook presents the methodologies to design and analyze efficient approximation algorithms for a large class of problems, and to establish inapproximability results for another class of problems. It also discusses local search, neural networks, and metaheuristics, as well as multiobjective problems, sensitivity analysis, and stability. After laying this foundation, the book applies the methodologies to classical problems in combinatorial optimization, computational geometry, and graph problems. In addition, it

explores large-scale and emerging applications in networks, bioinformatics, VLSI, game theory, and data analysis. Undoubtedly sparking further developments in the field, this handbook provides the essential techniques to apply approximation algorithms and metaheuristics to a wide range of problems in computer science, operations research, computer engineering, and economics. Armed with this information, researchers can design and analyze efficient algorithms to generate near-optimal solutions for a wide range of computational intractable problems.

Semiannual Report of the Secretary of Defense and the Semiannual Reports of the Secretary of the Army, Secretary of the Navy, Secretary of the Air Force - United States. Department of Defense 1955

Engineering and Mining Journal - 2004

Mine Planning and Equipment Selection 2000 - T.N. Michalakopoulos 2018-05-08
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.

Computer Applications in the Mineral Industries - Heping Xie 2020-12-17
This text covers the use of computer applications in the mineral industries, encompassing topics such as the use of computer visualization in mining systems and aspects such as ventilation and safety.

Mining in the New Millennium - Challenges and Opportunities Tad.S. Golosinski 2020-08-18
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.

Skillings' Mining Review -2000

Advances in Mineral Resources Management and Environmental Geotechnology - Zachiarias Agioutantis 2006
"The papers presented at this conference were organized in the following thematic units : Resources management towards sustainable development, Advances in solid waste management, Underground mining quality/mining heritage, Advances in geophysics, Advances in surface mining, Advances in ground water modelling, Advances in industrial minerals applications, Advances in metal recovery from primary and secondary resources, Advances in remediation technologies, Advances in geotechnics and geomechanics, Advances in processing and energy related issues, Advances in liquid waste management, Advances in surface mining environmental impacts, Advances in environmental impact - risk assessment - monitoring techniques."--Préface

Mining Engineering - 1977
Vol. 3- includes v. 190- of the Transactions.

Coal Geology - Larry Thomas 2020-07-02
A global exploration of coal geology, from production and use to chemical properties and coal petrology Coal Geology, 3rd Edition, offers a revised and updated edition of this popular book which provides a comprehensive overview of the field of coal geology including coal geophysics, hydrogeology and mining. Also covered in this volume are fully revised coverage of resource and reserve definitions, equipment and recording techniques together with the use of coal as an alternative energy source as well as environmental implications. This third edition provides a textbook ideally suited to anyone studying, researching or working in the field of coal geology, geotechnical engineering and environmental science. Fills the gap between academic aspects of coal geology and the practical role of geology in the coal industry Examines sedimentological and stratigraphical geology, together with mining, geophysics, hydrogeology, environmental issues and coal marketing Defines global coal resource classifications and methods of calculation Addresses the alternative uses of coal as a source of energy Covers a global approach to coal producers and consumers

Mining, Challenges of the 21st Century Ajoy K. Ghose 2000

Operational Research in Industry - Tito Ciriani 1999-07-12
Operational Research in Industry brings together the experience of an international group of practising OR consultants, researchers and academics in the applications of OR in

Industry. The book gives practical examples of cross-industry management, covers many different industrial sectors and includes a variety of operations research tools including modelling, optimization and data mining.

Mine Planning and Equipment Selection 1995 - J. Hadjigeorgiou 1995-10-31
This text presents about 150 papers based on an international symposium on mine planning and equipment selection, held in Canada in 1995. Coverage includes: design and planning of surface and underground mines; surface mining and the environment; tailings disposal; and slope stability analysis.

Sustainable Management of Mining Operations - J. A. Botin 2009
Today's mining professionals face unparalleled challenges brought about by globalization and increased environmental awareness. The pressure is on to enhance corporate reputations, achieve higher operational efficiency, improve planning and control, gain access to mineral resources, build trust with stakeholders, attract financing, recruit and retain a quality workforce, and lower costs. Sustainable Management of Mining Operations provides a holistic, practical approach to achieving these goals. The key, say the authors, is to create a culture within the organization that recognizes the value of sustainability by effectively integrating economic, environmental, and social considerations. They explore the three management functions that are instrumental in shaping this culture: corporate strategy, human resources, and operations. Each section of this book focuses on sustainable management from a different perspective, management level, or stage of the mine life cycle. You'll benefit from real-life, practical insights from 27 internationally respected authors whose job titles have encompassed everything from CEO to master mechanic. Focusing on real-life experience and not abstract theory, you'll learn first hand from case histories written by those who "got their hands dirty." You'll see how leading-edge companies are leveraging culture, strong leadership, and organizational structure to capitalize on sustainability. Sustainable Management of Mining Operations is required reading for mining professionals with operations, human resources, external affairs, or environmental health and safety responsibilities. The book is also a powerful, forward-looking resource for faculty and students in mining studies programs.

Applied Geostatistics with SGeMS - Nicolas Remy 2011-04-14
The Stanford Geostatistical Modeling Software (SGeMS) is an open-source computer package for solving problems involving spatially related variables. It provides geostatistics practitioners with a user-friendly interface, an interactive 3-D visualization, and a wide selection of algorithms. This practical book provides a step-by-step guide to using SGeMS algorithms. It explains the underlying theory, demonstrates their implementation, discusses their potential limitations, and helps the user make an informed decision about the choice of one algorithm over another. Users can complete complex tasks using the embedded scripting language, and new algorithms can be developed and integrated through the SGeMS plug-in mechanism. SGeMS was the first software to provide algorithms for multiple-point statistics, and the book presents a discussion of the corresponding theory and applications. Incorporating the full SGeMS software (now available from www.cambridge.org/9781107403246), this book is a useful user-guide for Earth Science graduates and researchers, as well as practitioners of environmental mining and petroleum engineering.

Agents and Artificial Intelligence - Ana Paula Rocha 2021-03-13
This book contains the revised and extended versions of selected papers from the 12th International Conference on Agents and Artificial Intelligence, ICAART 2020, held in Valletta, Malta, in February 2020. Overall, 45 full papers, 74 short papers, and 56 poster papers were carefully reviewed and selected from 276 initial submissions. 23 of the 45 full papers were selected to be included in this volume. These papers deal with topics such as agents and artificial intelligence.

Journal of the South African Institute of Mining and Metallurgy - South African Institute of Mining and Metallurgy 2005

SA Mining - 2002

Proceedings of the 27th International Symposium on Mine Planning and Equipment Selection - MPES 2018 Eleonora Widzyk-Capehart 2019-02-21
This proceedings book presents research papers discussing the latest developments and findings in the fields of mining, machinery, automation and environmental protection. It includes contributions from authors from over 20 countries, with backgrounds in computer science, mining engineering, technology and management, and hailing from the government, industry and academia. It is of interest to scientists, engineers, consultants and government staff who are responsible for the development and implementation of innovative approaches, techniques and technologies in the mineral industries. Covering the latest advances in fundamental research, it also appeals to academic researchers.

Sensing and Monitoring Technologies for Mines and Hazardous Areas - Swadesh Chaulya 2016-10-27
Sensing and Monitoring Technologies for Mines and Hazardous Areas: Monitoring and Prediction Technologies presents the fundamentals of mining related geotechnical risk and how the latest advances in sensing and data communication can be used both to prevent accidents and provide early warnings. Opencast mining operations involve huge quantities of overburden removal, dumping, and backfilling in excavated areas. Substantial increases in the rate of accumulation of waste dumps in recent years has resulted in greater height of dumps and also has given rise to the danger of dump failures as steeper open pit slopes are prone to failure. These failures lead to loss of valuable human lives and damage to mining machinery. This book presents the most recent advances in gas sensors, methane detectors, and power cut-off systems. It also introduces monitoring of the gas strata and environment, and an overview of the use of Internet of Things and cloud computing for mining sensing and surveillance purposes. Targeted at geotechnical and mining engineers, this volume covers the latest findings and technology to prevent mining accidents and mitigate the inherent risk of the activity. Presents complete details of a real-time slope stability monitoring system using wireless sensor networking and prediction technique based on multivariate statistical analysis of various parameters and analytical hierarchy process methods Discusses innovative ideas and new concepts of sensing technologies, mine transport surveillance, digital mining, and cloud computing to improve safety and productivity in mining industry Includes slope stability prediction software, downloadable through a companion website, which can be used for monitoring, analyzing, and storing different sensors and providing audio-visual, SMS, and email alerts Covers the latest findings and technology to prevent mining accidents and mitigate the inherent risk