

Open Pit Mining Software Manual

Proceedings of the 12th International Symposium Continuous Surface Mining - Aachen 2014 *Open Pit Mine Planning & Design Advances in Spatio-Temporal Analysis* *Open Pit Mine Planning and Design, Two Volume Set, Second Edition Computer Applications in the Mineral Industries* **Open Pit Mine Planning & Design Mine Planning and Equipment Selection 1998** **Mine Planning and Equipment Selection 2000** *Geologic and Mine Modelling Using Techbase and Lynx* *Operational Sustainability in the Mining Industry* **Open Pit Mine Planning and Design, Two Volume Set & CD-ROM Pack** *Mine Planning and Equipment Selection 1996* *Surface Mining, Second Edition SME Mining Reference Handbook, 2nd Edition* **Handbook of Operations Research in Natural Resources** **Proceedings of Geotechnical Challenges in Mining, Tunneling and Underground Infrastructures** **Mineral Resources Underground Mining Methods** *Geotechnical Stability in Surface Mining* **Transactions Mine Planning and Equipment Selection 2004** **SME Mining Engineering Handbook, Third Edition** **Geomechanical Processes during Underground Mining** *International Journal of Surface Mining and Reclamation* **Natural and Anthropogenic Disasters** *Advances in Applied Strategic Mine Planning* *Mineral Exploration Mining Haul Roads* **Underground Mining Methods and Technology** *Office of Surface Mining Reclamation and Enforcement budget request for fiscal year 1988* *Mining in the New Millennium - Challenges and Opportunities* *Proceedings of the International Workshop on Rock Mass Classification in Underground Mining* **Office of Surface Mining Annual Report** **Mining goes Digital** *Mining Latin America / Minería Latinoamericana* *Mineral Property Evaluation* *Mine Planning and Equipment Selection 1995* **Improving Safety at Small Underground Mines** *Federal Software Exchange Catalog* **Human Interaction, Emerging Technologies and Future Systems V**

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Mineral Property Evaluation Dec 26 2019 “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.

Geologic and Mine Modelling Using Techbase and Lynx Apr 22 2022 This text provides a process-oriented discussion of the theory, methodology and philosophy of geologic and mine modelling using two commercial software packages: Techbase, a leader for mineral exploration and modelling bedded deposits; and Lynx, for modelling geology.

Proceedings of Geotechnical Challenges in Mining, Tunneling and Underground Infrastructures Sep 15 2021 This book consists of selected papers presented at the International Conference on Geotechnical Challenges in Mining, Tunneling and Underground Infrastructures (ICGMTU), held as a virtual conference on December 20, 2021. The papers represent the research work in the related fields of underground mining, ground control, mining geotechnics, geo-instrumentation, mine tunnelling, and underground structures. It focuses on the latest technology being implemented including artificial intelligence and machine learning applications to solve challenges in mining tunneling and geotechnical structure engineering. It also highlights the state-of-the-art technologies adopted by the civil and mining industry for their commercial as well as environmental benefits. The papers are presented by an international pool of academics, research scientist, and industrial experts and therefore cater to the global audience from the field of underground engineering.

Mining Haul Roads Sep 03 2020 Mining haul roads are a critical component of surface mining infrastructure and the performance of these roads has a direct impact on operational efficiency, costs and safety. A significant proportion of a mine’s cost is associated with material haulage and well-designed and managed roads contribute directly to reductions in cycle times, fuel burn, tyre costs and overall cost per tonne hauled and critically, underpin a safe transport system. The first comprehensive treatise on mining haul road design, construction, operation and management, *Mining Haul Roads – Theory and Practice* presents an authoritative compendium of worldwide experience and state-of-the-art practices developed and applied over the last 25 years by the three authors, over three continents and many of the world’s leading surface mining operations. In this book, the authors: Introduce the four design components of an integrated design methodology for mining haul roads – geometric (including drainage), structural, functional and maintenance management Illustrate how mine planning constraints inform road design requirements Develop the analytical framework for each of the design components from their theoretical basis, and using typical mine-site applications, illustrate how site-specific design guidelines are developed, together with their practical implementation Summarise the key road safety and geometric design considerations specific to mining haul roads Specify the mechanistic structural design approach unique to ultra-heavy wheel loading associated with OTR mine trucks Describe the selection, application and management of the road wearing course material, together with its rehabilitation, including the use of palliatives Develop road and operating cost models for estimating total road-user costs, based on road rolling resistance measurement and modelling techniques Illustrate the approach of costing a mining road construction project based on the design methodologies previously introduced List and describe future trends in mine haulage system development, how mining haul road design will evolve to meet these new system challenges and how the increasing availability of data is used to manage road performance and ultimately provide 24x7 trafficability. *Mining Haul Roads – Theory and Practice* is a complete practical reference for mining operations, contractors and mine planners alike, as well as civil engineering practitioners and consulting engineers. It will also be invaluable in other fields of transportation infrastructure provision and for those seeking to learn and apply the state-of-the-art in mining haul roads. “This book is the most definitive treatise on mining haul roads ever written [...] There has never been a text that addresses the many facets of mining haul roads on such a scope [...]” From the Foreword by Jim Humphrey, Professional Engineer, Autonomous haulage systems developer and Distinguished Member of the Society of Mining, Metallurgy and Exploration.

Proceedings of the 12th International Symposium Continuous Surface Mining - Aachen 2014 Dec 30 2022 This edited volume contains research results presented at the 12th International Symposium Continuous Surface Mining, ISCSM Aachen 2014. The target audience primarily comprises researchers in the lignite mining industry and practitioners in this field but the book may also be beneficial for graduate students.

Geomechanical Processes during Underground Mining Feb 08 2021 This volume deals with economic aspects of mining companies development strategies, various mineral deposits development techniques, imitational modeling of mine workings with rock massifs, methane extraction technologies during coal mining, geomechanical processes during plow mining, mining transport importance for mineral extraction, massifs

Mine Planning and Equipment Selection 2004 Apr 10 2021 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.

Surface Mining, Second Edition Dec 18 2021 This SME classic is both a reference book for the working engineer and a textbook for the mining student. This hardcover edition gives a brief history of surface mining and a general overview of the state of surface mining today—topics range from production and productivity to technological developments and trends in equipment. This extremely useful text takes the approach that exploration and mining geologists must be expert in a number of fields, including basic finance and economics, logistics, and pragmatic prospecting. Readers will find material on all these topics and more. The book’s nine chapters include: Introduction, Exploration and Geology Techniques, Ore Reserve Estimation, Feasibility Studies and Project Financing, Planning and Design of Surface Mines, Mine Operations, Mine Capital and Operating Costs, Management and Organization, and Case Studies. The book is fully indexed.

Advances in Applied Strategic Mine Planning Nov 05 2020 This book presents a collection of papers on topics in the field of strategic mine planning, including orebody modeling, mine-planning optimization and the optimization of mining complexes. Elaborating on the state of the art in the field, it describes the latest technologies and related research as well as the applications of a range of related technologies in diverse industrial contexts.

Underground Mining Methods and Technology Aug 02 2020 This book contains high-quality papers from the principal mining research institutes of the USA, United Kingdom, India and South Africa, thus providing up-to-date coverage of underground mining and technology in the main mining areas of the world. The theme is mining in adverse conditions using state-of-the-art technology. A wide range of problems facing mining engineers is discussed, namely: thick seam working, mining under massive beds, highly productive room and pillar operations, water problems, ventilation, and electronics in longwall mining.

Underground Mining Methods Jul 13 2021 *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.

Open Pit Mine Planning & Design Nov 29 2022

Open Pit Mine Planning and Design, Two Volume Set & CD-ROM Pack Feb 20 2022 Building on the success of its 2006 predecessor, this 3rd edition of *Open Pit Mine Planning and Design* has been both updated and extended, ensuring that it remains the most complete and authoritative account of modern open pit mining available. Five new chapters on unit operations have been added, the revenues and costs chapter has been substantial

Mining goes Digital Feb 26 2020 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 1995 Nov 24 2019 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.

Improving Safety at Small Underground Mines Oct 24 2019

International Journal of Surface Mining and Reclamation Jan 07 2021

Geotechnical Stability in Surface Mining Jun 12 2021 This book presents the proceedings of the international symposium on geotechnical stability in surface mining in Calgary. The symposium deals with the full gamut of mine equipment development, selection and utilization.

Mineral Exploration Oct 04 2020 *Mineral Exploration: Principles and Applications, Second Edition*, presents an interdisciplinary approach on the full scope of mineral exploration. Everything from grass root discovery, objective base sequential exploration, mining, beneficiation, extraction, economic evaluation, policies and acts, rules and regulations, sustainability, and environmental impacts is covered. Each topic is presented using theoretical approaches that are followed by specific applications that can be used in the field. This new edition features updated references, changes to rules and regulations, and new sections on oil and gas exploration and classification, air-core drilling, and smelting and refining techniques. This book is a key resource for both academics and professionals, offering both practical and applied knowledge in mineral exploration. Offers important updates to the previous edition, including sections on the cyclical nature of mineral industry, exploration for oil and gas, CHIM-electro-geochemical survey, air-core drilling, classification of oil and gas resources, smelting, and refining technologies Presents global case studies that allow readers to quickly apply exploration concepts to real-world scenarios Includes 385 illustrations and photographs to aid the reader in understanding key procedures and applications

Mining Latin America / Minería Latinoamericana Jan 27 2020 In October, 1985, discussions were held in Santiago in regard to the possibility of organizing a minerals industry conference in Chile in November, 1986, under the auspices of the Institution of Mining and Metallurgy and in association with other bodies and organizations. I, in turn, was asked to chair the Organizing Committee and at our first meeting in London in November, 1985, we realized how little time we had if we were to meet the date proposed. In the event, thanks to considerable support from the Organizing Committee and others, coupled with the very good response from authors, we were able to put together a programme on a variety of topics, with some particular emphasis on operations in South America, and with special reference to Chile, that we regard as attractive. This is the first conference to have been organized by the Institution of Mining and Metallurgy in Chile, but it is intended that it should initiate a series to be held in Latin American countries. Chile has a long and healthy mining tradition and it is fitting, therefore, that it should have been chosen for the first such conference.

Computer Applications in the Mineral Industries Aug 26 2022 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.

Transactions May 11 2021 Some vols., 1920-1949, contain collections of papers according to subject.

Office of Surface Mining Reclamation and Enforcement budget request for fiscal year 1988 Jul 01 2020

Handbook of Operations Research in Natural Resources Oct 16 2021 Here is the first systematic handbook treatment of quantitative modeling natural resource problems, their allocated efficient use, and societal and economic impact. Andrés Weintraub is the very top person in Natural Resource research. He has selected co-editors who are at the top of the sub-fields in natural resources: agriculture, fisheries, forestry, and mining. The book covers these areas with contributions from researchers on, among others, modeling natural research problems, quantifying data, and developing algorithms.

Mine Planning and Equipment Selection 1998 Jun 24 2022 This work details the findings of the 7th International Conference on Mine Planning and Equipment Selection of 1998, held in Calgary. Topics include: design and

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

Office of Surface Mining Annual Report Mar 29 2020

Open Pit Mine Planning & Design Jul 25 2022 Outstanding textbook designed for courses in surface mine design, open pit design, geological excavation engineering and in advanced open pit mine planning and design. The step-by-step introduction to mine design and planning enables a fast-path approach to the matter by undergraduate and graduate students. The excellent, user-friendly software guides the student through the planning and design steps, and the drillhole data sets allows the student to practice the described principles in diverse mining properties case examples. The large number of illustrative examples and case studies, together with the exercises and the reference lists at the end of each chapter, provide the student with all the material needed to study effectively the theory and application methods of open pit mine planning and design. Volume 1 deals with the fundamental concepts involved in the planning and design of open pit mines. Subjects covered are mine planning, mining revenues and costs, orebody description, geometrical considerations, pit limits, production planning, mineral resources and ore reserves, and responsible mining. Volume 2 deals with CSMine, a user-friendly mine planning and design software that was developed specifically to illustrate the principles involved when applied in practice. It includes CSMine software, a CSMine tutorial, a user's guide and various orebody case examples. Although intended as student course material, many practitioners have used it as a practical reference guide.

Open Pit Mine Planning and Design, Two Volume Set, Second Edition Sep 27 2022 Outstanding textbook designed for courses in surface mine design, open pit design, geological excavation engineering and in advanced open pit mine planning and design. The step-by-step introduction to mine design and planning enables a fast-path approach to the matter by undergraduate and graduate students. The excellent, user-friendly software guides the student through the planning and design steps, and the drillhole data sets allows the student to practice the described principles in diverse mining properties case examples. The large number of illustrative examples and case studies, together with the exercises and the reference lists at the end of each chapter, provide the student with all the material needed to study effectively the theory and application methods of open pit mine planning and design. Volume 1 deals with the fundamental concepts involved in the planning and design of open pit mines. Subjects covered are mine planning, mining revenues and costs, orebody description, geometrical considerations, pit limits, production planning, mineral resources and ore reserves, and responsible mining. Volume 2 deals with CSMine, a user-friendly mine planning and design software that was developed specifically to illustrate the principles involved when applied in practice. It includes CSMine software, a CSMine tutorial, a user's guide and various orebody case examples. Although intended as student course material, many practitioners have used it as a practical reference guide.

Mining in the New Millennium - Challenges and Opportunities May 31 2020 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.

SME Mining Reference Handbook, 2nd Edition Nov 17 2021 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.

Federal Software Exchange Catalog Sep 22 2019

Advances in Spatio-Temporal Analysis Oct 28 2022 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.

Natural and Anthropogenic Disasters Dec 06 2020 The major challenges of the 21st century faced by human beings are how to achieve water security, food security, energy security and environmental security. Owing to enhanced natural/anthropogenic disasters worldwide, these challenges become much more complicated and daunting especially for developing countries. Therefore, it is important to highlight the risk of different disasters as well as the modern tools and techniques for minimizing disaster incidence and losses. Disaster management being highly multidisciplinary in nature, a comprehensive book dealing with different aspects of disaster management, and encompassing important disasters faced by humankind is presently not available. This book is an attempt to fulfill this gap. It provides clear, comprehensive, and up-to-date information about different facets of disaster management along with salient case studies. The book highlights the current status of disaster management focusing on developing nations, discusses vital issues such as climate change and sustainable development, modern approaches and tools/techniques, and the challenges of and future R&D needs for sustainable disaster management.

Mine Planning and Equipment Selection 2000 May 23 2022 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.

Mineral Resources Aug 14 2021 This comprehensive textbook covers all major topics related to the utilization of mineral resources for human activities. It begins with general concepts like definitions of mineral resources, mineral resources and humans, recycling mineral resources, distribution of minerals resources across Earth, and international standards in mining, among others. Then it turns to a classification of mineral resources, covering the main types from a geological standpoint. The exploration of mineral resources is also treated, including geophysical methods of exploration, borehole geophysical logging, geochemical methods, drilling methods, and mineral deposit models in exploration. Further, the book addresses the evaluation of mineral resources, from sampling techniques to the economic evaluation of mining projects (i.e. types and density of sampling, mean grade definition and calculation, Sichel's estimator, evaluation methods – classical and geostatistical, economic evaluation – NPV, IRR, and PP, estimation of risk, and software for evaluating mineral resources). It subsequently describes key mineral resource exploitation methods (open pit and underground mining) and the mineral processing required to obtain saleable products (crushing, grinding, sizing, ore separation, and concentrate dewatering, also with some text devoted to tailings dams). Lastly, the book discusses the environmental impact of mining, covering all the aspects of this very important topic, from the description of diverse impacts to the environmental impact assessment (EIA), which is essential in modern mining projects.

Mine Planning and Equipment Selection 1996 Jan 19 2022 A collection of 125 papers on mine planning and selection of equipment, covering such topics as: design and planning of surface and underground mines; planning and equipment selection for difficult mining conditions; equipment selection procedures; and mine and equipment information systems.

SME Mining Engineering Handbook, Third Edition Mar 09 2021 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

Human Interaction, Emerging Technologies and Future Systems V Aug 22 2019 This book reports on research and developments in human-technology interaction. A special emphasis is given to human-computer interaction and its implementation for a wide range of purposes such as health care, aerospace, telecommunication, and education, among others. The human aspects are analyzed in detail. Timely studies on human-centered design, wearable technologies, social and affective computing, augmented, virtual and mixed reality simulation, human rehabilitation, and biomechanics represent the core of the book. Emerging technology applications in business, security, and infrastructure are also critically examined, thus offering a timely, scientifically grounded, but also professionally oriented snapshot of the current state of the field. The book gathers contributions presented at the 5th International Conference on Human Interaction and Emerging Technologies (IHET 2021, August 27-29, 2021) and the 6th International Conference on Human Interaction and Emerging Technologies: Future Systems (IHET-FS 2021, October 28-30, 2021), held virtually from France. It offers a timely survey and a practice-oriented reference guide to researchers and professionals dealing with design, systems engineering, and management of the next-generation technology and service systems.

Operational Sustainability in the Mining Industry Mar 21 2022 This book broadly explains the requirement to focus on core components in a business and provides a case study of open-pit mining operations throughout the book to understand the management perspective of large organizations. With globalized approaches of large businesses and the rising requirement of understanding the needs of modern organizations, it is necessary to focus on key areas of businesses to ensure sustainability of operations. Organizations look into achieving a high return on investments and short-term measures in increasing sales or revenue is considered unsuitable. It is a necessity to look for sustainability and continuous methods of innovation to boost efficiency. This book provides a case study based on large organizations and uses qualitative methodologies where data was collected using in-depth interviews of respondents from various mining companies in the top and middle-level management from different parts of the world, detailing the state of the art of information systems currently used in large scale open-pit mining (LSOPM). This book provides a sound knowledge of cutting-edge factors to the reader for managing the business to attain operational excellence and long-term sustainability, and caters to a broad spectrum of management and technical readers.

Proceedings of the International Workshop on Rock Mass Classification in Underground Mining Apr 29 2020