



GEOTECHNICAL PRACTICE FOR
Stability in Open Pit Mining



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C. O. BRAWNER and V. MILLIGAN, Editors

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production and distribution The growing need for space at ground level along with its continuous value increase and the challenges of energy saving and achieving sustainable development objectives demand greater and better use of the underground space to ensure that it supports sustainable resilient and more liveable cities The contributions cover a wide range of topics from studying tunnels in squeezing ground conditions via case studies on the Brenner Base Tunnel the second Gotthard Tunnel CERN HL LHC and the Dubai Strategic Sewerage Tunnel to TBM steering difficulties The book is a valuable reference text for tunnelling specialists owners engineers archaeologists architects artists and others involved in underground planning design and building around the world and for academics who are interested in underground constructions and geotechnics *Advances in Rock Dynamics and Applications* Yingxin Zhou,Jian Zhao,2011-05-25 The study of rock dynamics is important because many rock mechanics and rock engineering problems involve dynamic loading ranging from earthquakes to vibrations and explosions The subject deals with the distribution and propagation of loads dynamic responses and processes of rocks and rate dependent properties coupled with the physical environment *Guidelines for Open Pit Slope Design* John Read,Peter Stacey,2009-11-09 *Guidelines for Open Pit Slope Design* is a comprehensive account of the open pit slope design process Created as an outcome of the Large Open Pit LOP project an international research and technology transfer project on rock slope stability in open pit mines this book provides an up to date compendium of knowledge of the slope design processes that should be followed and the tools that are available to aid slope design practitioners This book links innovative mining geomechanics research into the strength of closely jointed rock masses with the most recent advances in numerical modelling creating more effective ways for predicting rock slope stability and reliability in open pit mines It sets out the key elements of slope design the required levels of effort and the acceptance criteria that are needed to satisfy best practice with respect to pit slope investigation design implementation and performance monitoring *Guidelines for Open Pit Slope Design* comprises 14 chapters that directly follow the life of mine sequence from project commencement through to closure It includes information on gathering all of the field data that is required to create a 3D model of the geotechnical conditions at a mine site how data is collated and used to design the walls of the open pit how the design is implemented up to date procedures for wall control and performance assessment including limits blasting scaling slope support and slope monitoring and how formal risk management procedures can be applied to each stage of the process This book will assist in meeting stakeholder requirements for pit slopes that are stable in regards to safety ore recovery and financial return for the required life of the mine *Guidelines for Mine Waste Dump and Stockpile Design* Mark Hawley,John Cunning,2017-04-01 *Guidelines for Mine Waste Dump and Stockpile Design* is a comprehensive practical guide to the investigation design operation and monitoring of mine waste dumps dragline spoils and major stockpiles associated with large open pit mines These facilities are some of the largest man made structures on Earth and while most have performed very well there are cases where instabilities have occurred with severe consequences

including loss of life and extensive environmental and economic damage Developed and written by industry experts with extensive knowledge and experience this book is an initiative of the Large Open Pit LOP Project It comprises 16 chapters that follow the life cycle of a mine waste dump dragline spoil or stockpile from site selection to closure and reclamation It describes the investigation and design process introduces a comprehensive stability rating and hazard classification system provides guidance on acceptability criteria and sets out the key elements of stability and runout analysis Chapters on site and material characterisation surface water and groundwater characterisation and management risk assessment operations and monitoring management of ARD emerging technologies and closure are included A chapter is also dedicated to the analysis and design of dragline spoils Guidelines for Mine Waste Dump and Stockpile Design summarises the current state of practice and provides insight and guidance to mine operators geotechnical engineers mining engineers hydrogeologists geologists and other individuals that are responsible at the mine site level for ensuring the stability and performance of these structures Readership includes mining engineers geotechnical engineers civil engineers engineering geologists hydrogeologists environmental scientists and other professionals involved in the site selection investigation design permitting construction operation monitoring closure and reclamation of mine waste dumps and stockpiles **Surface Mining, Second Edition** Bruce A. Kennedy, Society for Mining, Metallurgy, and Exploration (U.S.), 1990 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

Probabilistic Modeling of Tailings Embankment Designs: Model application and verification, 1982 Rock Slope Engineering Duncan C. Wyllie, 2017-09-18 Rock Slope Engineering covers the investigation design excavation and remediation of man made rock cuts and natural slopes primarily for civil engineering applications It presents design information on structural geology shear strength of rock and ground water including weathered rock Slope design methods are discussed for planar wedge circular and toppling failures including seismic design and numerical analysis Information is also provided on blasting slope stabilization movement monitoring and civil engineering applications This fifth edition has been extensively up dated with new chapters on weathered rock including shear strength in relation to weathering grades and seismic design of rock slopes for pseudo static stability and Newmark displacement It now includes the use of remote sensing techniques such as LiDAR to monitor slope movement and collect structural geology data The chapter on numerical

analysis has been revised with emphasis on civil applications The book is written for practitioners working in the fields of transportation energy and industrial development and undergraduate and graduate level courses in geological engineering

Rock Mechanics: Meeting Society's Challenges and Demands, Two Volume Set Erik Eberhardt,Doug Stead,Tom Morrison,2007-05-17 Ore extraction through surface and underground mining continues to involve deeper excavations in more complex rock mass conditions Communities and infrastructure are increasingly exposed to rock slope hazards as they expand further into rugged mountainous terrains Volume 1 presents papers describing new technologies ideas and insights concerning fundamental rock mechanics while the second volume comprises a collection of rock engineering case histories relevant to the major themes of the symposium rock slope hazards geotechnical infrastructure surface and underground mining and petroleum exploitation

Guidelines for Slope Performance Monitoring Robert Sharon,Erik Eberhardt,2020-07-01 Although most mining companies utilise systems for slope monitoring experience indicates that mining operations continue to be surprised by the occurrence of adverse geotechnical events A comprehensive and robust performance monitoring system is an essential component of slope management in an open pit mining operation The development of such a system requires considerable expertise to ensure the monitoring system is effective and reliable Written by instrumentation experts and geotechnical practitioners *Guidelines for Slope Performance Monitoring* is an initiative of the Large Open Pit LOP Project and the fifth book in the *Guidelines for Open Pit Slope Design* series Its 10 chapters present the process of establishing and operating a slope monitoring system the fundamentals of pit slope monitoring instrumentation and methods monitoring system operation data acquisition management and analysis and utilising and communicating monitoring results The implications of increased automation of mining operations are also discussed including the future requirements of performance monitoring *Guidelines for Slope Performance Monitoring* summarises leading mine industry practice in monitoring system design implementation system management data management and reporting and provides guidance for engineers geologists technicians and others responsible for geotechnical risk management

Sensing and Monitoring Technologies for Mines and Hazardous Areas Swadesh Chaulya,G. M. Prasad,2016-06-10 *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

Dictionary Catalog of the Department Library United States. Department of the Interior. Library,1975 *Engineering Geology Applied to the Design and Operation of Underground Coal Mines* C. Richard Dunrud,1998 KWIC Index of Rock Mechanics Literature J P Jenkins,E. T. Brown,2016-06-03 KWIC Index of Rock Mechanics Literature Part 2 1969 1976 is an index of subjects in rock mechanics The KWIC keyword in context index is produced by cyclic permutation of significant words in the title of the publication The text covers materials in rock mechanics and geomechanics published around the 70s The book will be of great use to students researchers and practitioners of geological sciences Guidelines for Open Pit and Waste Dump Closure Phil de Graaf,Geoff Beale,Trevor Carter,2025-05

Guidelines for Open Pit and Waste Dump Closure provides a benchmark reference for geotechnical and hydrogeological professionals and other closure stakeholders involved in assessing and implementing the closure of open pits and waste dumps It defines a state of best practice geotechnical and hydrological pathway that reflects current industry wide experience considers the perspectives of the operator regulator and community and encompasses closure planning design implementation and monitoring Written by industry experts and practitioners Guidelines for Open Pit and Waste Dump Closure is the sixth in a series of books developed by the Large Open Pit LOP Project Focused on the technical challenges related to geology geotechnical engineering water and geochemistry it covers the key aspects that relate to closure of open pits and waste dumps including planning long term physical and chemical stability and post mining land use PMLU The book also includes workflows that provide clarity on geotechnical and hydrogeological assessments relating to closure planning definition of pragmatic objectives and measures of success implementation and monitoring for open pits and waste dumps for closure and how these may interact with adjacent land uses Drawing on global lessons learned on mine closure over a period of more than 30 years this comprehensive guide uses industry experience to set out a road map to closure and potentially relinquishment of open pits and waste dumps It will be invaluable for mine closure practitioners corporate planners mine management mining engineers and technical staff mine stakeholders and regulators

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Table of Contents Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings

1. Understanding the eBook Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - The Rise of Digital Reading Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Advantages of eBooks Over Traditional Books
2. Identifying Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Personalized Recommendations
 - Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings User Reviews and Ratings
 - Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings and Bestseller Lists
5. Accessing Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings Free and Paid eBooks
 - Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings Public Domain eBooks
 - Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings eBook Subscription Services

Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings

- Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings Budget-Friendly Options
- 6. Navigating Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings eBook Formats
 - ePub, PDF, MOBI, and More
 - Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings Compatibility with Devices
 - Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Highlighting and Note-Taking Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Interactive Elements Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
- 8. Staying Engaged with Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
- 9. Balancing eBooks and Physical Books Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Setting Reading Goals Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Fact-Checking eBook Content of Geotechnical Practice For Stability In Open Pit Mining Proceedings Proceedings
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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