

# GUIDELINES FOR **OPEN PIT SLOPE DESIGN**

EDITORS: JOHN READ, PETER STACEY



# Guidelines For Open Pit Slope Design

**Yves Potvin**



## **Guidelines For Open Pit Slope Design:**

*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 Open Pit Slope Design in Weak Rocks** Derek Martin, Peter Stacey, 2018-01-10 Weak rocks encountered in open pit mines cover a wide variety of materials with properties ranging between soil and rock As such they can provide a significant challenge for the slope designer For these materials the mass strength can be the primary control in the design of the pit slopes although structures can also play an important role Because of the typically weak nature of the materials groundwater and surface water can also have a controlling influence on stability *Guidelines for Open Pit Slope Design in Weak Rocks* is a companion to *Guidelines for Open Pit Slope Design* which was published in 2009 and dealt primarily with strong rocks Both books were commissioned under the Large Open Pit LOP project which is sponsored by major mining companies These books provide summaries of the current state of practice for the design implementation and assessment of slopes in open pits with a view to meeting the requirements of safety as well as the recovery of anticipated ore reserves This book which follows the general cycle of the slope design process for open pits contains 12 chapters These chapters were compiled and written by industry experts and contain a large number of case histories The initial chapters address field data collection the critical aspects of determining the strength of weak rocks the role of groundwater in weak rock slope stability and slope design considerations which can differ somewhat from those applied to strong rock The subsequent chapters address the principal weak rock types that are encountered in open pit mines including cemented colluvial sediments weak sedimentary mudstone rocks soft coals and

chalk weak limestone saprolite soft iron ores and other leached rocks and hydrothermally altered rocks A final chapter deals with design implementation aspects including mine planning monitoring surface water control and closure of weak rock slopes As with the other books in this series Guidelines for Open Pit Slope Design in Weak Rocks provides guidance to practitioners involved in the design and implementation of open pit slopes particularly geotechnical engineers mining engineers geologists and other personnel working at operating mines

**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

**Guidelines for Evaluating Water in Pit Slope Stability** John Read, Geoff Beale, 2013-12-17 Guidelines for Evaluating Water in Pit Slope Stability is a comprehensive account of the hydrogeological procedures that should be followed when performing open pit slope stability design studies Created as an outcome of the Large Open Pit LOP project an international research and technology transfer project on the stability of rock slopes in open pit mines this book expands on the hydrogeological model chapter in the LOP project's previous book Guidelines for Open Pit Slope Design Read CSIRO PUBLISHING The book comprises six sections which outline the latest technology and best practice procedures for hydrogeological investigations The sections cover the framework used to assess the effect of water in slope stability how water pressures are measured and tested in the field how a conceptual hydrogeological model is prepared how water pressures are modelled numerically how slope depressurisation systems are implemented and how the performance of a slope depressurisation program is monitored and reconciled with the design Guidelines for Evaluating Water in Pit Slope Stability offers slope design practitioners a road map that will help them decide how to investigate and treat water pressures in pit slopes It provides guidance and essential information for mining and civil engineers geotechnical engineers engineering geologists and hydrogeologists involved in the investigation design and construction of stable rock slopes

**Guidelines for Open Pit Slope Design in Weak Rocks** Derek Martin, Peter Stacey, 2018-01-10 Weak rocks encountered in open pit mines cover a wide variety of materials with properties ranging between soil and rock. As such, they can provide a significant challenge for the slope designer. For these materials, the mass strength can be the primary control in the design of the pit slopes, although structures can also play an important role. Because of the typically weak nature of the materials, groundwater and surface water can also have a controlling influence on stability. *Guidelines for Open Pit Slope Design in Weak Rocks* is a companion to *Guidelines for Open Pit Slope Design* which was published in 2009 and dealt primarily with strong rocks. Both books were commissioned under the Large Open Pit LOP project which is sponsored by major mining companies. These books provide summaries of the current state of practice for the design, implementation and assessment of slopes in open pits with a view to meeting the requirements of safety as well as the recovery of anticipated ore reserves. This book, which follows the general cycle of the slope design process for open pits, contains 12 chapters. These chapters were compiled and written by industry experts and contain a large number of case histories. The initial chapters address field data collection, the critical aspects of determining the strength of weak rocks, the role of groundwater in weak rock slope stability and slope design considerations which can differ somewhat from those applied to strong rock. The subsequent chapters address the principal weak rock types that are encountered in open pit mines, including cemented colluvial sediments, weak sedimentary mudstone rocks, soft coals and chalk, weak limestone, saprolite, soft iron ores and other leached rocks, and hydrothermally altered rocks. A final chapter deals with design implementation aspects, including mine planning, monitoring, surface water control and closure of weak rock slopes. As with the other books in this series, *Guidelines for Open Pit Slope Design in Weak Rocks* provides guidance to practitioners involved in the design and implementation of open pit slopes, particularly geotechnical engineers, mining engineers, geologists and other personnel working at operating mines.

**Guidelines for Evaluating Water in Pit Slope Stability** John Russell Lee Read, Geoff Beale, 2013

**Guidelines for Mine Waste Dump and Stockpile Design** Mark Hawley, 2017-04 *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 **Rock**

**Mechanics for Natural Resources and Infrastructure Development - Invited Lectures** Sérgio da Fontoura, Ricardo Rocca, José Mendoza, 2019-09-03 Rock Mechanics for Natural Resources and Infrastructure Development Invited Lectures contains the Invited and Keynote Lectures and the prestigious ISRM Award Lectures the Leopold Muller Award Lecture by professor Peter K Kaiser and the Manuel Rocha Award Lecture by Dr Quinghua Lei as presented at the 14th ISRM International Congress ISRM 2019 Foz do Igua u Brazil 13 19 September 2019 Starting in 1966 in Lisbon Portugal the International Society for Rock Mechanics and Rock Engineering ISRM holds its Congress every four years where relevant themes related to rock mechanics and rock engineering are discussed This volume covers topics ranging from fundamental research in rock mechanics laboratory and experimental field studies to petroleum mining and civil engineering applications and is a must read for academics engineers and students involved in rock mechanics and engineering Proceedings in Earth and geosciences Volume 5 The Proceedings in Earth and geosciences series contains proceedings of peer reviewed international conferences dealing in earth and geosciences The main topics covered by the series include geotechnical engineering underground construction mining rock mechanics soil mechanics and hydrogeology *Rock Mechanics for Natural Resources and Infrastructure Development - Full Papers* Sergio A.B. Fontoura, Ricardo Rocca, José Mendoza, 2019-09-03 Rock Mechanics for Natural Resources and Infrastructure Development contains the proceedings of the 14th ISRM International Congress ISRM 2019 Foz do Igua u Brazil 13 19 September 2019 Starting in 1966 in Lisbon Portugal the International Society for Rock Mechanics and Rock Engineering ISRM holds its Congress every four years At this 14th occasion the Congress brings together researchers professors engineers and students around contemporary themes relevant to rock mechanics and rock engineering Rock Mechanics for Natural Resources and Infrastructure Development contains 7 Keynote Lectures and 449 papers in ten chapters covering topics ranging from fundamental research in rock mechanics laboratory and experimental field studies and petroleum mining and civil engineering applications Also included are the prestigious ISRM Award Lectures the Leopold Muller Award Lecture by professor Peter K Kaiser and the Manuel Rocha Award Lecture by Dr Quinghua Lei Rock Mechanics for Natural Resources and Infrastructure Development is a must read for academics engineers and students involved in rock mechanics and engineering Proceedings in Earth and

geosciences Volume 6 The Proceedings in Earth and geosciences series contains proceedings of peer reviewed international conferences dealing in earth and geosciences The main topics covered by the series include geotechnical engineering underground construction mining rock mechanics soil mechanics and hydrogeology The Evolution of Geotech - 25 Years of Innovation Reginald Hammah,Thamer Yacoub,Alison McQuillan,John Curran,2021-11-23 This publication includes 82 technical papers presented at Rocscience International Conference RIC 2021 held online on April 20 and 21 2021 Rocscience created this event to bring geotechnical academics researchers and practitioners together to exchange ideas as part of celebrating 25 years of the company s existence The papers in these proceedings were from keynotes panel discussions and papers selected after careful review of over 100 technical submissions delivered at RIC 2021 The technical papers were grouped into sessions based on their subject areas The conference aimed to stimulate discussions that could help the industry work towards overcoming geotechnical engineering limitations today It also sought to foster creative thinking that will advance the current states of the art and practice The keynote addresses panel discussions and technical presentations tried to examine geotechnical problems and situations from fresh perspectives RIC 2021 hopes that the proceedings will continue to enrich our thinking and contribute to achieving a critical mass of change in our practices and approaches We look forward to significant improvements in our industry

**Rock Mechanics and Rock Engineering: From the Past to the Future** Reşat Ulusay,2016-11-18 Rock Mechanics and Rock Engineering From the Past to the Future contains the contributions presented at EUROCK2016 the 2016 International Symposium of the International Society for Rock Mechanics ISRM 2016 rg p Cappadocia Region Turkey 29 31 August 2016 The contributions cover almost all aspects of rock mechanics and rock engineering from theories to engineering practices emphasizing the future direction of rock engineering technologies The 204 accepted papers and eight keynote papers are grouped into several main sections Fundamental rock mechanics Rock properties and experimental rock mechanics Analytical and numerical methods in rock engineering Stability of slopes in civil and mining engineering Design methodologies and analysis Rock dynamics rock mechanics and rock engineering at historical sites and monuments Underground excavations in civil and mining engineering Coupled processes in rock mass for underground storage and waste disposal Rock mass characterization Petroleum geomechanics Carbon dioxide sequestration Instrumentation monitoring in rock engineering and back analysis Risk management and the 2016 Rocha Medal Lecture and the 2016 Franklin Lecture Rock Mechanics and Rock Engineering From the Past to the Future will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2016 organized by the Turkish National Society for Rock Mechanics is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

*Rock Engineering Design* Xia-Ting Feng,John A. Hudson,2011-07-27 Given the recent advances in site investigation techniques computing access to information and monitoring plus the current emphasis on safety accountability and sustainability this book introduces an up to date

methodology for the design of all types of rock engineering projects whether surface or underground Guidance is provided on the nature of the rock engineering project and the design methodology

**SME Mining Engineering Handbook, Third Edition** Peter Darling, Society for Mining, Metallurgy, and Exploration (U.S.), 2011 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

**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 *Guidelines for Open Pit and Waste Dump Closure* Phil de Graaf, Geoff Beale, Trevor Carter, 2025-05-01 *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 **Quarterly Bulletin of the Canadian Mining Institute** Canadian Institute of Mining and Metallurgy, Canadian Mining Institute, 1977 **Guidelines for Open-pit Ore Pass Design: Design manual** D. F. Hambley, 1983 *CIM Bulletin* Canadian Institute of Mining and Metallurgy, 1994 *Journal of the South African Institute of Mining and Metallurgy* South African Institute of Mining and Metallurgy, 1998 **Slope Stability 2007** Yves Potvin, 2007

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