

# GUIDELINES FOR **OPEN PIT SLOPE DESIGN**

EDITORS: JOHN READ, PETER STACEY



# Guidelines For Open Pit Slope Design

**Canadian Institute of Mining and  
Metallurgy, Canadian Mining Institute**



## **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 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

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

**Guidelines for Slope Performance Monitoring** Robert Sharon, Erik Eberhardt, 2026-02-02 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 This book is an initiative of the Large Open Pit LOP Project and the fifth book in the **Guidelines for Open Pit Slope Design** series It 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

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Journal of the South African Institute of Mining and Metallurgy South African Institute of Mining and Metallurgy,1998 **Quarterly Bulletin of the Canadian Mining Institute** Canadian Institute of Mining and Metallurgy,Canadian Mining Institute,1977 **CIM Bulletin** Canadian Institute of Mining and Metallurgy,1994

**Bulletin - Association of Engineering Geologists** Association of Engineering Geologists,1972 **Pit Slope Manual** Mining Research Laboratories (Canada),1977 ABSTRACT The paper describes procedures used to design pit walls Structural groundwater and mechanical properties are analyzed Mine planning design stages stability and financial analyses operating stages and associated designs are also examined *Slope Stability 2007* Yves Potvin,2007 Pit Slope Manual ,1976

*Pit Slope Manual: Groundwater. Supplement 4-1, Computer manual for seepage analysis* Mining Research Laboratories (Canada),1977 **Mine Planning and Equipment Selection** ,1998 Planning Open Pit Mines P. W. J. Van Rensburg,1971 **Pit Slope Manual: Mechanical support. Supplement 6-1, Buttresses and retaining walls** Mining Research Laboratories (Canada),1977

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