

GUIDELINES FOR **OPEN PIT SLOPE DESIGN**

EDITORS: JOHN READ, PETER STACEY



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Richard Drake Call



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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 Evaluating Water in Pit Slope Stability** John Russell Lee Read, Geoff Beale, 2013 *Minería chilena*, 2009 *Geotechnical Practice for Stability in Open Pit Mining* C. O. Brawner, Victor Milligan, 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 **The Role of Slope Stability in the Economics, Design and Operation of Open Pit Mines** Richard M. Stewart, Bruce A. Kennedy, 1970 **Pit Slope Manual - Chapter 2, Structural Geology** Canada Centre for Mineral and Energy Technology, 1977 **Guidelines for Slope Performance Monitoring** Robert Sharon, Erik Brian Eberhardt, 2020 Economic Analysis Applied to Open-pit Slope Design William Cleamon Cassun, 1976 **Analysis of Geologic Structure for Open Pit Slope Design** Richard Drake Call, 1977 *Aspects of Slope Design in Open Pit Mining* Dermot Ross-Brown, 1973 **Design of Stable Slope for Opencast Mines**, Slope stability analysis forms an integral part of the opencast mining operations during the life cycle of the project In Indian mining conditions slope design guidelines were not yet formulated for different types of mining practices and there is a growing need to develop such guidelines for maintaining safety and productivity Till date most of the design methods are purely based on field experience rules of thumb followed by sound engineering judgment During the last four decades the concepts of slope stability analysis have emerged within the domain of rock engineering to address the problems of design and stability of excavated slopes The basic objective of the project is primarily addressed towards a Understanding the different types and modes of slope failures b Designs of stable slopes for opencast mines using numerical models Analyses were conducted using the finite difference code FLAC Slope The work was aimed at investigating failure mechanisms in more detail at the same time developing the modeling technique for pit slopes The results showed that it was possible to simulate several failure mechanisms in particular circular shear and toppling failure using numerical modeling The modeling results enabled description of the different phases of slope failures initiation and propagation Failures initiated in some form at the toe of the slope but the process leading up to total collapse was complex involving successive redistribution of stress and accumulation of strain Significant displacements resulted before the failure had been developed fully Based on parametric studies it can be concluded that friction angle plays a major role on slope stability in comparison to Cohesion Keywords Slope stability open pit mining numerical modeling rock mass strength failure mechanisms Open Pit Slope Design John M. Marek, John F. Abel, 1976 **Pit Slope Manual** Pit Slope Project (Mining Research Laboratories (Canada)), 1977 ABSTRACT This manual details the monitoring of walls potential instabilities and actual instabilities The implementations of telemetry and computer control to monitor these areas are described Analysis and Design of Open-pit Slope Angles at Inspiration, Arizona Alexander Moore, 1977 **Rock Slope Engineering, Fourth Edition** Duncan C. Wyllie, Chris Mah, 2004-06-01 The stability of rock slopes is an important issue in both civil and mining engineering On civil projects rock cuts must be safe

from rock falls and large scale slope instability during both construction and operation In open pit mining where slope heights can be many hundreds of meters the economics of the operation are closely related to the steepest stable slope angle that can be mined This extensively updated version of the classic text Rock Slope Engineering by Hoek and Bray deals comprehensively with the investigation design and operation of rock slopes Investigation methods include the collection and interpretation of geological and groundwater data and determination of rock strength properties including the Hoek Brown rock mass strength criterion Slope design methods include the theoretical basis for the design of plane wedge circular and toppling failures and design charts are provided to enable rapid checks of stability to be carried out New material contained in this book includes the latest developments in earthquake engineering related to slope stability probabilistic analysis numerical analysis blasting slope movement monitoring and stabilization methods The types of stabilization include rock anchors shotcrete drainage and scaling as well as rock fall protecting methods involving barriers ditches nets and sheds Rock Slopes Civil and Mining Engineering contains both worked examples illustrating data interpretation and design methods and chapters on civil and mining case studies The case studies demonstrate the application of design methods to the construction of stable slopes in a wide variety of geological conditions The book provides over 300 carefully selected references for those who wish to study the subject in greater detail It also includes an introduction by Dr Evert Hoek

Two- and Three-dimensional Slope Stability Analyses of Open Pit Mines Under Geomechanical Uncertainty and Rock Mass Properties Variability Christian Obregon Mitma, 2020 In open pit mining a major geotechnical challenge involves the excavation of the steepest possible slope angle to achieve the lowest stripping ratio while ensuring maximum ore recovery This generally means a good overall profitability since waste rock removal is kept to a minimum However steepening pit slopes may induce failures which may disprove the economic benefits that were initially aimed at and which may also result in loss of life damage to equipment and environment As a result the selection of slope angle is a critical decision that can have far reaching effects on the economics and operation of the mining project Traditionally slope stability assessments for pit slopes are carried out by means of a 2D deterministic analysis However there are two major drawbacks with this approach First a deterministic approach is unable to account for the variability and uncertainty in the rock mass strength properties Second a two dimensional analysis cannot capture the complex open pit geology and varying geometry which is inherently 3D in character This work deals with the geotechnical slope design of three open pit case studies by means of a probabilistic based approach in order account for the variability and uncertainty in the properties corresponding to both the intact rock and geological discontinuities Rock slope stability assessments are carried out at three different scales bench inter ramp and global pit slope by means of analytical and numerical tools Both kinematic and kinetic analysis for structurally controlled failure mechanisms were carried out at the bench scale by means of classical Limit Equilibrium Analysis LEA Also a novel Discrete Fracture Network DFN modelling technique was used for the stochastic representation of discrete rock blocks Slope

stability analysis at the inter ramp slope was performed through a deterministic approach of major large scale discontinuities mapped during field geological characterization The global pit slope stability analysis focused on investigating the uncertainty in intact rock and rock mass Hoek Brown shear strength envelopes and was conducted using 2D 3D Limit Equilibrium Analysis LEA vs Finite Element Analysis FEA Finally deterministic vs probabilistic LEA vs FEA and 2D vs 3D slope stability analysis tools are compared and their results are discussed

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