Guidelines For Open Pit Slope Design Download

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Hustrulid Phil de Graaf Derek Martin Derek Martin W. A. Hustrulid Adam M. Sowards William A. Hustrulid AMDEL W. A. Hustrulid Xinming Tang C. O. Brawner Engineering Institute of Canada. B.C. Section William Hustrulid C. O. Brawner W. A. Hustrulid W. A. Hustrulid C. O. Brawner

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

divided into two volumes this accessible work describes the principles involved in hard rock blasting as applied to open pit mines a large number of examples illustrate the application of the principles the first volume introduces basic engineering concepts and the building blocks that make up a blast design the second volume goes into more depth to provide a

better understanding of the fundamental concepts involved in rock blasting both volumes provide a basis for engineers to improve their blasting operations and their understanding of blasting papers that appear in technical literature

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

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

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situated among the north cascade mountains of washington state in the glacier peak wilderness area miners ridge contains vast quantities of copper kennecott copper corporation s plan to develop an open pit mine there was when announced in 1966 the first test of the mining provision of the wilderness act passed by congress in 1964 the battle over the proposed open pit big enough to be seen from the moon as activists called it drew the attention of both local and national conservationists who vowed to stop the desecration of one of the west s most scenic places kennecott copper had the full force of the law and mining industry behind it in asserting its extractive rights meanwhile the u s forest service was determined to defend its authority to manage wilderness an open pit visible from the moon tells the story of this historic struggle to define the contours of the wilderness act its possibilities and limits combining rigorous analysis and deft storytelling adam m sowards re creates the contest between kennecott and its shareholders on one hand and activists on the other intent on maintaining wilderness as a place immune to the calculus of profit a host of actors cross these pages from cabinet secretaries and a supreme

court justice to local doctors and college students all contributing to a drama that made miners ridge a cause célèbre for the nation s wilderness movement as locals testified at public hearings and writers penned profiles in the nation s magazines and newspapers the volatile political economy of copper proved equally influential in frustrating kennecott s plans no law or court ruling could keep kennecott from mining copper but the pit was never dug identifying the contingent factors and forces that converged and coalesced in this case sowards s narrative recalls a critical moment in the struggle over the nation s wild places even as it puts the unpredictability of history on full display

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

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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

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