



# Caterpillar Surface Mining Applications Guide 2015

**North Carolina. Land Quality Section**



## **Caterpillar Surface Mining Applications Guide 2015:**

Mining Haul Roads Roger Thompson, Rodrigo Peroni, Alex Visser, 2019-01-15 Mining haul roads are a critical component of surface mining infrastructure and the performance of these roads has a direct impact on operational efficiency costs and safety A significant proportion of a mine's cost is associated with material haulage and well designed and managed roads contribute directly to reductions in cycle times fuel burn tyre costs and overall cost per tonne hauled and critically underpin a safe transport system The first comprehensive treatise on mining haul road design construction operation and management Mining Haul Roads Theory and Practice presents an authoritative compendium of worldwide experience and state of the art practices developed and applied over the last 25 years by the three authors over three continents and many of the world's leading surface mining operations In this book the authors Introduce the four design components of an integrated design methodology for mining haul roads geometric including drainage structural functional and maintenance management Illustrate how mine planning constraints inform road design requirements Develop the analytical framework for each of the design components from their theoretical basis and using typical mine site applications illustrate how site specific design guidelines are developed together with their practical implementation Summarise the key road safety and geometric design considerations specific to mining haul roads Specify the mechanistic structural design approach unique to ultra heavy wheel loading associated with OTR mine trucks Describe the selection application and management of the road wearing course material together with its rehabilitation including the use of palliatives Develop road and operating cost models for estimating total road user costs based on road rolling resistance measurement and modelling techniques Illustrate the approach of costing a mining road construction project based on the design methodologies previously introduced List and describe future trends in mine haulage system development how mining haul road design will evolve to meet these new system challenges and how the increasing availability of data is used to manage road performance and ultimately provide 24x7 trafficability Mining Haul Roads Theory and Practice is a complete practical reference for mining operations contractors and mine planners alike as well as civil engineering practitioners and consulting engineers It will also be invaluable in other fields of transportation infrastructure provision and for those seeking to learn and apply the state of the art in mining haul roads This book is the most definitive treatise on mining haul roads ever written There has never been a text that addresses the many facets of mining haul roads on such a scope From the Foreword by Jim Humphrey Professional Engineer Autonomous haulage systems developer and Distinguished Member of the Society of Mining Metallurgy and Exploration

**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

**Expanding Underground - Knowledge and Passion to Make a Positive Impact on the World** Georgios Anagnostou, Andreas Benardos, Vassilis P. Marinos, 2023-04-12 Expanding Underground Knowledge and Passion to Make a Positive Impact on the World contains the contributions presented at the ITA AITES World Tunnel Congress 2023 Athens Greece 12-18 May 2023 Tunnels and underground space are a predominant engineering practice that can provide sustainable cost efficient and environmentally friendly solutions to the ever growing needs of modern societies This underground expansion in more diverse and challenging infrastructure types or to novel underground uses can foster the changes needed At the same time the tunneling and underground space community needs to be better prepared and equipped with knowledge tools and experience to deal with the prevailing conditions to successfully challenge and overcome adversities on this path The papers in this book aim at contributing to the analysis of challenging conditions the presentation and dissemination good practices the introduction of new concepts new tools and innovative elements that can help engineers and all stakeholders to reach their end goals Expanding Underground Knowledge and Passion to Make a Positive Impact on the World covers a wide range of aspects and topics related to the whole chain of the construction and operation of underground structures Knowledge and Passion to Expand Underground for Sustainability and Resilience Geological Geotechnical Site Investigation and Ground Characterization Planning and Designing of Tunnels and Underground Structures Mechanised Tunnelling and Microtunnelling Conventional Tunnelling Drill and Blast Applications Tunnelling in Challenging Conditions Case Histories and Lessons Learned Innovation Robotics and Automation BIM Big Data and Machine Learning Applications in Tunnelling Safety Risk and Operation of Underground Infrastructure and Contractual Practices Insurance and Project Management The book is a must have reference for all professionals and stakeholders involved in tunneling and underground space development projects

**Data Analytics Applied to the Mining Industry** Ali Soofastaei, 2020-11-12 Data Analytics Applied to the Mining Industry describes the key challenges facing the mining sector as it transforms into a digital industry able to fully exploit process automation remote operation centers autonomous equipment and the opportunities offered by the industrial internet of things It provides guidelines on how data needs to be collected stored and managed to enable the different advanced data analytics methods to be applied effectively in practice through use of case studies and worked examples Aimed at graduate students researchers and professionals in the industry of mining

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 state of the art for Mining Executives and Managers Highlights and describes critical opportunity areas for mining  
 optimization Brings experience and learning in digital transformation from adjacent sectors     **Green Technologies to  
 Improve the Environment on Earth** Marquidia Pacheco,2019-04-10 The aim of this book is to compile some of the green  
 technologies applied to improve the environment on Earth The success of these technologies is built from humility from this  
 ethical principle the concept of honest broker is defined in this work Some of the biggest environmental problems such as  
 soil pollution by heavy metals and pollution from the mining industry and massive coal plants are also addressed Additional  
 subjects depicted here include geothermal energy plasma technology and the correct use of electric vehicles and  
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 certain technologies depicted here can contribute to their conservation     **Energy Conservation Update** ,1978     **Mines  
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 Martin,1982     *Surface Mining Blasting* Carl S. Pavetto,1980     **Caterpillar Hydraulic Mining Shovels** Rob  
 Sinclair,2026-11-15 A detailed and technical account of Caterpillar hydraulic mining shovels from 1992 until the closure of  
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