

# Rock Slope Engineering

Revised Second Edition

E. Hoek & J.W. Bray

Institution of Mining  
and Metallurgy

A black and white photograph showing a massive rock slope failure. Large, angular rock fragments are piled up on a road surface, partially blocking it. The background shows a steep, rocky hillside with some sparse vegetation. The image is used as a cover for a book on rock slope engineering.

# Rock Slope Engineering Revised 2nd Edition

**Bernard Amadei**



## **Rock Slope Engineering Revised 2nd Edition:**

**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

*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

**Rock Slope Engineering: Engineering geology considerations and basic approach to rock slope stability analysis for highways**, 1976

**Workshop on Rock Slope Engineering** Piteau & Associates, 1976

Rock Slope Engineering Evert Hoek, Jonathan D. Bray, 1981-06-30 This classic handbook deals with the geotechnical problems of rock slope design It has

been written for the non specialist mining or civil engineer with worked examples design charts coverage of more detailed analytical methods and of the collection and interpretation of geological and groundwater information and tests for the mechanical

*Geomechanics and Geodynamics of Rock Masses - Volume 2* Vladimir Litvinenko, 2018-05-20 This book is Volume 2 of the EUROCK 2018 proceedings Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

*Rock Slope Engineering* Duncan C. Wyllie, Chris Mah, 2017-12-21 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     Surface Mining, Second Edition Bruce A. Kennedy, Society for Mining, Metallurgy, and Exploration (U.S.), 1990 This SME classic is both a reference book for the working engineer and a textbook for the mining student This hardcover edition gives a brief history of surface mining and a general overview of the state of surface mining today topics range from production and productivity to technological developments and trends in equipment This extremely useful text takes the approach that exploration and mining geologists must be expert in a number of fields including basic finance and economics logistics and pragmatic prospecting Readers will find material on all these topics and more The book's nine chapters include Introduction Exploration and Geology Techniques Ore Reserve Estimation Feasibility Studies and Project Financing Planning and Design of Surface Mines Mine Operations Mine Capital and Operating Costs Management and Organization and Case Studies The book is fully indexed     **37th U.S. Symposium on Rock Mechanics** Bernard Amadei, 1999     *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     Engineering Geology F G Bell, 2007-02-14 Every engineering structure whether it's a building bridge or road is affected by the ground on which it is built Geology is of fundamental importance when deciding on the location and design of all engineering works and it is essential that engineers have a basic knowledge of the subject Engineering Geology introduces the fundamentals of the

discipline and ensures that engineers have a clear understanding of the processes at work and how they will impact on what is to be built Core areas such as stratigraphy rock types structures and geological processes are explained and put in context The basics of soil mechanics and the links between groundwater conditions and underlying geology are introduced As well as the theoretical knowledge necessary Professor Bell introduces the techniques that engineers will need to learn about and understand the geological conditions in which they intend to build Site investigation techniques are detailed and the risks and risk avoidance methods for dealing with different conditions are explained Accessible introduction to geology for engineers Key points illustrated with diagrams and photographs Teaches the impact of geology on the planning and design of structures

**Sustainable Construction Materials and Technologies** Yoon-Moon Chun, Peter Claisse, Tarun R. Naik, Eshmaiel Ganjian, 2007-05-31 The construction materials industry is a major user of the world's resources While enormous progress has been made towards sustainability the scope and opportunities for improvements are significant To further the effort for sustainable development a conference on Sustainable Construction Materials and Technologies was held at Coventry University Coventry U K from June 11th 13th 2007 to highlight case studies and research on new and innovative ways of achieving sustainability of construction materials and technologies This book presents selected important contributions made at the conference Over 190 papers from over 45 countries were accepted for presentation at the conference of which approximately 100 selected papers are published in this book The rest of the papers are published in two supplementary books Topics covered in this book include sustainable alternatives to natural sand stone and Portland cement in concrete sustainable use of recyclable resources such as fly ash ground municipal waste slag pozzolan rice husk ash silica fume gypsum plasterboard drywall and lime in construction sustainable mortar concrete bricks blocks and backfill the economics and environmental impact of sustainable materials and structures use of construction and demolition wastes and organic materials straw bale hemp etc in construction sustainable use of soil timber and wood products and related sustainable construction and rehabilitation technologies

Tunnel Design by Rock Mass Classifications Z. T. Bieniawski, 1979 *An Introduction to Slope Stability and Protection* J. Paul Guyer, P.E., R.A., 2018-02-03 Introductory technical guidance for civil and geotechnical engineers interested in slope stability and protection Here is what is discussed 1 INTRODUCTION 2 TYPES OF FAILURES 3 METHODS OF ANALYSIS 4 TRANSLATIONAL FAILURE ANALYSIS 5 REQUIRED SAFETY FACTORS 6 EARTHQUAKE LOADING 7 EFFECTS OF SOIL PARAMETERS AND GROUNDWATER ON STABILITY 8 BIBLIOGRAPHY 9 GLOSSARY 10 SYMBOLS

**Practical Rock Mechanics** Steve Hencher, 2015-08-28 This text provides an introduction for graduate students as well as engineering geologists and geotechnical engineers It is also relevant to those working in nuclear waste disposal and oil and gas production The early chapters deal with fundamental mechanics and physics as they apply to rock masses It provides an introduction to the geological processes that give rise to the nature of rock masses and control their mechanical behavior It discusses stresses in the earth's crust and explains

methods of measurement and prediction      **New Challenges in Rock Mechanics and Rock Engineering** Roberto Tomás,Miguel Cano,Adrián Riquelme,José Luis Pastor,David Benavente,Salvador Ordóñez,2024-07-29 New Challenges in Rock Mechanics and Rock Engineering includes the contributions presented at the ISRM European Rock Mechanics Symposium Eurock 2024 Alicante Spain 15 19 July 2024 and explores cutting edge advancements in rock mechanics and rock engineering This comprehensive compilation covers various aspects of rock mechanics and rock engineering including rock properties testing methods infrastructure and mining rock mechanics design analysis stone heritage preservation geophysics numerical modeling monitoring techniques underground excavation support risk assessment and the application of EUROCODE 7 in rock engineering Furthermore it addresses areas like geomechanics for the oil and gas industry applications of artificial intelligence remote sensing methodologies and geothermal technology New Challenges in Rock Mechanics and Rock Engineering covers the latest breakthroughs and tackles the new challenges in rock mechanics and rock engineering is aimed at scientists and professionals in these fields and serves as an essential resource for keeping up to date with industry trends and solutions      **Foundations of Engineering Geology, Second Edition** A. C. Waltham,WALTHAM,1993-12-09 The second edition of this well established book provides a readable and highly illustrated overview of the main facets of geology for engineers Each topic is presented as a double page spread with a careful mix of text tables and diagrams Comprehensively updated and with four new sections Foundations of Engineering Geology covers the entire spectrum of topics of interest to both student and professional      *Industrial Communication Technology Handbook, Second Edition* Richard Zurawski,2014-11-07 Featuring contributions from major technology vendors industry consortia and government and private research establishments the Industrial Communication Technology Handbook Second Edition provides comprehensive and authoritative coverage of wire and wireless based specialized communication networks used in plant and factory automation automotive applications avionics building automation energy and power systems train applications and more New to the Second Edition 46 brand new chapters and 21 substantially revised chapters Inclusion of the latest most significant developments in specialized communication technologies and systems Addition of new application domains for specialized networks The Industrial Communication Technology Handbook Second Edition supplies readers with a thorough understanding of the application specific requirements for communication services and their supporting technologies It is useful to a broad spectrum of professionals involved in the conception design development standardization and use of specialized communication networks as well as academic institutions engaged in engineering education and vocational training      **Rock landslide risk assessment, stability analysis and monitoring for the development of early warning systems and reinforcement measures** Mowen Xie,Yan Du,Yujing Jiang,Bo Li,2023-06-29      **Mining Environmental Handbook: Effects Of Mining On The Environment And American Environmental Controls On Mining** Jerrold J Marcus,1997-05-03 Negative environmental events make the headlines Mining industry examples are the

recent incidents at Summitville Colorado US and the cyanide leak at Cambria Resource s Omai Operation in Guyana In this volatile atmosphere the publication of the Mining Environmental Handbook comes at an opportune time It presents an objective comprehensive and integrated examination of the effects of mining on the environment and the environmental laws that deal with mining Though stressing activities in the United States of America it covers all of North America North American environmental standards are currently being exported around the world Consequently this handbook will be of prime interest in countries that are now coming to terms with mining environmentalism It should benefit working engineers and environmentalists manufacturers legislators regulators financiers and journalists It has been selected as a university textbook Finally it will be an indispensable reference during serious discussions about mining environmentalism



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