

The reinforcement load is applied in the stability analysis either as a single stabilizing element or a series of reinforcing elements to achieve the desired factor of safety. The length of the bolt or cable is dependent on the bond strength (adhesion to the rock) and the discontinuity spacing that forms the deepest part of the block. Tension lengths can range from 2 to 30 m (6 to 100 ft); however, in the transportation industry, the tension length rarely exceeds 10 m (30 ft). The detailed requirements for site investigation and analysis of rock cuts are provided in FHWA HI-99-007 *Rock Slopes Reference Manual* (Munfakh, Wylie, and Mah 1998).



Where:

V = Water force in tension crack

U = Uplift water force on base of sliding block

W = Weight of sliding block

α = Angle of slope face from the horizontal

α_s = Angle of the sliding plane from the horizontal

Z = Height measured from bottom of the tension crack to the crest of the slope

Z_w = Height of water column in tension crack

H = Overall height of the slope

Figure 45. Illustration. Example slope analysis diagram (modified from Hoek and Bray 1981).

Rock anchors are usually installed in a grid pattern, where each anchor is the same length and set at a predetermined distance from the surrounding bolts. Following a set pattern can improve the structural stability of an entire rock face, especially for weathered or highly fractured rock. On competent rock masses with large block sizes, engineers typically identify “key blocks” (i.e., blocks of rock that control support for surrounding blocks), then design a bolting pattern around them that makes it more difficult for the surrounding blocks to move. Designing a key block pattern requires engineers to map the three-dimensional fracture orientations, but can decrease the number of rock bolts required to stabilize a slope.

In both tensioned and untensioned anchors, the bearing plate and hex nut are used to distribute the load of the anchor to the rock face; a beveled washer is used to apply the load evenly when the bolt is angled in relation to the rock face. In rock masses with few discontinuities, the plate can be removed and the tendon (bar or cable) cut to allow for the installation of a grout cover or plug. This method is highly contingent on the quality of rock and stability of the rock mass.

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Padhraic Smyth



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Bridge Engineering Handbook Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of the Bridge Engineering Handbook This extensive collection highlights bridge engineering specimens from around the world contains detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the *Bridge Engineering Handbook, Five Volume Set* Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of the Bridge Engineering Handbook This extensive collection provides detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject and also highlights bridges from around the world This second edition of the bestselling Bridge Engineering Handbook covers virtually all the information an engineer would need to know about any type of bridge from planning to construction to maintenance It contains more than 2 500 tables charts and illustrations in a practical ready to use format An abundance of worked out examples gives readers numerous practical step by step design procedures Special attention is given to rehabilitation retrofit and maintenance Coverage also includes seismic design and building materials Thoroughly revised and updated this second edition contains 26 new chapters

Shored Mechanically Stabilized Earth (SMSE) Wall Systems Design Guidelines Kimberly Finke Morrison, 2006 As a Federal Highway Administration design reference for highway projects this report was prepared to enable the engineer to identify and evaluate potential applications of shored mechanically stabilized earth SMSE walls Included in this design guideline are a literature review on similar construction and the results and interpretation of field scale testing centrifuge modeling and numerical modeling of an SMSE wall system Results of the centrifuge modeling and field scale testing show that reduction of the reinforcement length to as little as 25 percent of the wall height $0.25H$ provides sufficient wall stability even under a considerably high degree of surcharge loading Using the results of the modeling and field testing research this design guideline recommends a minimum reinforcement length equivalent to as little as 30 percent of the wall height $0.3H$ for the MSE wall component provided that the MSE reinforcement length is greater than 1.5 m The benefit of attaching reinforcement to the shoring wall is found to be small and is generally not recommended except by way of the upper two layers of reinforcement If possible these layers of reinforcement should overlap the shoring wall and have a total length of $0.6H$ If this is not possible then these layers should be attached to the shoring wall Internal design requirements of the MSE wall component for an SMSE wall system differ from that of a traditional MSE wall Equations presented in this design guideline have been developed specifically to address these requirements The benefits of increased retaining abilities provided by the shoring wall such as reduction in lateral load acting on the MSE wall component and contribution to global stability are considered in the design process

Uncertainty, Modeling, and Decision Making in Geotechnics Kok-Kwang Phoon, Takayuki Shuku, Jianye Ching, 2023-12-11 Uncertainty Modeling and Decision Making in Geotechnics

shows how uncertainty quantification and numerical modeling can complement each other to enhance decision making in geotechnical practice filling a critical gap in guiding practitioners to address uncertainties directly The book helps practitioners acquire a working knowledge of geotechnical risk and reliability methods and guides them to use these methods wisely in conjunction with data and numerical modeling In particular it provides guidance on the selection of realistic statistics and a cost effective accessible method to address different design objectives and for different problem settings and illustrates the value of this to decision making using realistic examples Bringing together statistical characterization reliability analysis reliability based design probabilistic inverse analysis and physical insights drawn from case studies this reference guide from an international team of experts offers an excellent resource for state of the practice uncertainty informed geotechnical design for specialist practitioners and the research community

Slope Stability and Stabilization

Methods Lee W. Abramson, Thomas S. Lee, Sunil Sharma, Glenn M. Boyce, 2001-11-01 A major revision of the comprehensive text reference Written by world leading geotechnical engineers who share almost 100 years of combined experience Slope Stability and Stabilization Second Edition assembles the background information theory analytical methods design and construction approaches and practical examples necessary to carry out a complete slope stability project Retaining the best features of the previous edition this new book has been completely updated to address the latest trends and methodology in the field Features include All new chapters on shallow failures and stability of landfill slopes New material on probabilistic stability analysis cost analysis of stabilization alternatives and state of the art techniques in time domain reflectometry to help engineers plan and model new designs Tested and FHA approved procedures for the geotechnical stage of highway tunnel and bridge projects Sound guidance for geotechnical stage design and planning for virtually all types of construction projects Slope Stability and Stabilization Second Edition is filled with current and comprehensive information making it one of the best resources available on the subject and an essential reference for today s and tomorrow s professionals in geology geotechnical engineering soil science and landscape architecture

Analysis and Design of Geotechnical Structures Manuel Matos Fernandes, 2020-08-27 Analysis and design of geotechnical structures combines in a single endeavor a textbook to assist students in understanding the behavior of the main geotechnical works and a guide for practising geotechnical engineers designers and consultants The subjects are treated in line with limit state design which underpins the Eurocodes and most North America design codes Instructors and students will value innovative approaches to numerous issues refined by the experience of the author in teaching generations of enthusiastic students Professionals will gain from its comprehensive treatment of the topics covered in each chapter supplemented by a plethora of informative material used by consultants and designers For the benefit of both academics and professionals conceptual exercises and practical geotechnical design problems are proposed at the end of most chapters A final annex includes detailed resolutions of the exercises and problems

Rock Slope Engineering Reference Manual Piteau & Associates, 1979

Landslides in

Practice Derek H. Cornforth, Derek Cornforth, 2005-02-25 The authoritative guide to landslide investigation evaluation and mitigation design Landslides in Practice combines clearly written descriptions and real life case histories in an authoritative practical guide to landslide investigation evaluation and mitigation design It presents state of the art investigative techniques and practical information on proven remediation techniques and technologies including handy checklists for undertaking an initial field examination of a landslide Landslides in Practice describes the technical tools needed to study landslides site investigations soil shear strength properties and slope stability analyses and details forty five methods for stabilizing landslides or preventing instability in soils from occurring Most remediation techniques are keyed to the ENR Construction Cost Index to help readers determine a rough estimate of the costs associated with the various techniques To the point summaries explain presented techniques without confusing jargon and dozens of succinct case histories integrated throughout the book serve as useful examples In addition twelve expanded case histories illustrate in depth many aspects of the landslide events and remediation strategies covered Complete with hundreds of informative illustrations Landslides in Practice is a valuable resource for engineers geologists consulting firms and construction companies as well as landscape architects land developers and trial lawyers in the construction industry *Rock Slope Engineering Reference Manual* D. R. Piteau, Etats-unis. Federal highway administration, United States. National Technical Information Service, Federal Highway Administration (Washington, D.C.), 1979 Slope Stability Reference Guide for National Forests in the United States, 1994

Failure Mechanism and Stability Analysis of Rock Slope Ke Zhang, 2020-07-02 This book presents in depth coverage of laboratory experiments theories modeling techniques and practices for the analysis and design of rock slopes in complex geological settings It addresses new concepts in connection with the kinematical element method discontinuity kinematical element method integrated karst cave stochastic model limit equilibrium method improved strength reduction method and fracture mechanics method taking into account the relevant geological features The book is chiefly intended as a reference guide for geotechnical engineering and engineering geology professionals and as a textbook for related graduate courses

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 **Handbook of Slope**

Stabilisation J. A. R. Ortigao, Alberto Sayao, 2013-03-09 This book is aimed at the practising engineer and engineering geologist working in tropical environments where lands lides are mainly triggered by rain fall This book is based on a similar work published in 1999 in Portuguese which became the Rio de Janeiro Slope Manual This book is an engineering guide for the design of slopes and stabilisation works in rocks and residual soils It evolves from the cumulative experience gathered by several engineers and geologists who faced severe slope problems The authors experience throughout Central and South America Costa Rica Argentina Bolivia Peru Ecuador and Venezuela and the Far East especially Hong Kong and Malaysia was used as a foundation for writing this book The work also benefits enormously from the time spent in Hong Kong in 1996 and 1997 by the first editor on sabbatical at the City University of Hong Kong and the discussions he had with many colleagues from the Geotechnical Engineering Office GEO of the Hong Kong Government especially Dr A Malone Mr w K Pun Dr A Li Mr K Ho and Mr y c Chan among others **Rock Slope Engineering**, 1976 **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 Stability** Charles A. Kliche, 2018 A comprehensive guide for mining and construction engineers responsible for rock slope stability This book focuses on rock slope stability with sections on geological data collection geotechnical data collection and analysis surface water and groundwater effects kinematic and kinetic stability analysis rock slope stabilization techniques and rock

slope instrumentation and monitoring Because of the discontinuous nature of rock the design of stable rock slopes is as much an art as it is applied engineering Experience can only be achieved from the proper utilization of these theories of soil and rock mechanics structural geology and hydrology Rock Slope Stability is invaluable for engineering geologists geotechnical engineers mining engineers civil engineers and mine managers as well as anyone else dedicated to engineering slopes that are stable and safe and that enable a financial return Rock Slope Engineering Evert Hoek, John Bray, 1977

Geotechnical Slope Analysis Robin Chowdhury, Phil Flentje, Gautam Bhattacharya, 2009-11-18 Freshly updated and extended version of Slope Analysis Chowdhury Elsevier 1978 This reference book gives a complete overview of the developments in slope engineering in the last 30 years Its multi disciplinary critical approach and the chapters devoted to seismic effects and probabilistic approaches and reliability analyses reflect the distinctive style of the original Subjects discussed are the understanding of slope performance mechanisms of instability requirements for modeling and analysis and new techniques for observation and modeling Special attention is paid to the relation with the increasing frequency and consequences of natural and man made hazards Strategies and methods for assessing landslide susceptibility hazard and risk are also explored Moreover the relevance of geotechnical analysis of slopes in the context of climate change scenarios is discussed All theory is supported by numerous examples A wonderful book on Slope Stability recommended as a reference book to those who are associated with the geotechnical engineering profession undergraduates post graduates and consulting engineers Prof Devendra Narain Singh Indian Inst of Technology Mumbai India I have yet to see a book that excels the range and depth of Geotechnical Slope Analysis I have failed to find a topic which is not covered and that makes the book almost a single window outlet for the whole range of readership from students to experts and from theoreticians to practicing engineers Prof R K Bhandari New Delhi India Rock Slope Design Manual Ohio. Department of Transportation, 2010 This Manual is intended to provide guidance for the design of rock cut slopes rockfall catchment and rockfall controls Recommendations presented in this manual are based on research presented in Shakoor and Admassu 2010 entitled Rock Slope Design Criteria State Job Number 134325 previous FHWA co sponsored research and the experience of the Office of Geotechnical Engineering OGE These guidelines should be viewed as the presentation of the philosophy of the OGE regarding rock cut slope and catchment design **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 properties of rock

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