

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

$\alpha$  = Angle of slope face from the horizontal

$\alpha_s$  = 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 1980).

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.

# Fhwa Rock Slope Reference Manual

**Laura Fay,Michelle Akin,Xianming  
Shi,National Cooperative Highway  
Research Program**



## **Fhwa Rock Slope Reference Manual:**

**FHWA research, development and technology implimentaiton catalog** United States. Federal Highway Administration. Implementation Division,198? Slope Stability Reference Guide for National Forests in the United States ,1994 **FHWA Research and Development Implementation Catalog** United States. Federal Highway Administration. Implementation Division,1980 **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 FHWA Publications United States. Federal Highway Administration,1984 *FHWA Research, Development and Technology Implementation Catalog* United States. Federal Highway Administration. Implementation Division,1984 *NHI Training Catalog* National Highway Institute (U.S.),2006 **FHWA Research, Development, and Technology Implementation Catalog** United States. Federal Highway Administration. Office of Implementation,1984 **NHI Catalog** National Highway Institute (U.S.),2009 **SRIM Index** ,1980 An Introduction to Geotechnical Considerations in Highway Pavement for Professional Engineers J. Paul Guyer, P.E., R.A.,2022-02-16 Introductory technical guidance for civil engineers and construction managers interested in geotechnical considerations in the design and construction of street and highway pavements Here is what is discussed 1 INTRODUCTION 2 GEOTECHNICAL FACTORS IN PAVEMENT DESIGN **Rock Fall Engineering** Duncan C. Wyllie,2014-09-24 Rock falls can be a public safety issue This book provides comprehensive information on identification of these hazards and design and construction of protection methods Rock Fall Engineering

describes first the theoretical background to rock fall behavior in terms of the impact and trajectory phases of rock falls and second how this informati

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**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

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*Federally Coordinated Program of Research and Development in Highway Transportation*, 1982

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

**Cost-effective and Sustainable Road Slope Stabilization and Erosion Control** Laura Fay, Michelle Akin, Xianming Shi, National Cooperative Highway Research Program, 2012 In the United States it is estimated that 75 percent of all roads are low volume roads maintained by some 35 000 local agencies Low volume roads often omit surface slope protection and this can lead to slope failure erosion and maintenance safety and ecological issues This report presents information on cost effective and sustainable road slope

stabilization techniques with a focus on shallow or near surface slope stabilization and related erosion control methods used on low volume roads To fully address this topic planning and site investigation are discussed as well as erosion control techniques soil bioengineering and biotechnical techniques mechanical stabilization and earthwork techniques Information presented in this report was obtained through an extensive literature review and from survey and interview responses From the survey responses 30 individuals were interviewed based on the information they made available in the survey A total of 25 interviews were conducted over the phone and in two cases written responses were received Preface **Report No.** **FHWA-RD.** United States. Federal Highway Administration. Offices of Research and Development,1976

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