

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 1999).



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 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.

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Julia Schneider



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Table of Contents Rock Slopes Reference Manual Munfakh

1. Understanding the eBook Rock Slopes Reference Manual Munfakh
 - The Rise of Digital Reading Rock Slopes Reference Manual Munfakh
 - Advantages of eBooks Over Traditional Books
2. Identifying Rock Slopes Reference Manual Munfakh
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Rock Slopes Reference Manual Munfakh
 - User-Friendly Interface

4. Exploring eBook Recommendations from Rock Slopes Reference Manual Munfakh
 - Personalized Recommendations
 - Rock Slopes Reference Manual Munfakh User Reviews and Ratings
 - Rock Slopes Reference Manual Munfakh and Bestseller Lists
5. Accessing Rock Slopes Reference Manual Munfakh Free and Paid eBooks
 - Rock Slopes Reference Manual Munfakh Public Domain eBooks
 - Rock Slopes Reference Manual Munfakh eBook Subscription Services
 - Rock Slopes Reference Manual Munfakh Budget-Friendly Options
6. Navigating Rock Slopes Reference Manual Munfakh eBook Formats
 - ePub, PDF, MOBI, and More
 - Rock Slopes Reference Manual Munfakh Compatibility with Devices
 - Rock Slopes Reference Manual Munfakh Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Rock Slopes Reference Manual Munfakh
 - Highlighting and Note-Taking Rock Slopes Reference Manual Munfakh
 - Interactive Elements Rock Slopes Reference Manual Munfakh
8. Staying Engaged with Rock Slopes Reference Manual Munfakh
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Rock Slopes Reference Manual Munfakh
9. Balancing eBooks and Physical Books Rock Slopes Reference Manual Munfakh
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Rock Slopes Reference Manual Munfakh
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Rock Slopes Reference Manual Munfakh
 - Setting Reading Goals Rock Slopes Reference Manual Munfakh
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Rock Slopes Reference Manual Munfakh
 - Fact-Checking eBook Content of Rock Slopes Reference Manual Munfakh
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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