

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

$\alpha$  = 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 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 tension (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.

# Rock Slopes Reference Manual Munfakh

**Lingsheng Yao**



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