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dams, roads, tunnels,

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underground  
powerhouses and  
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petroleum exploration  
and nuclear  
repositories, a more  
comprehensive and  
updated understanding  
of rock mass is  
essential for civil  
engineers, engineering  
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**Engineering in Rocks**

Bhawani Singh, R.K.

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Goel, in Engineering  
Rock Mass  
Classification, 2011.  
Stability analysis of a  
rock slope requires  
assessment of shear  
strength parameters,  
that is, cohesion ( $c$ )  
and angle of internal  
friction of the rock  
mass. Dilatancy in a  
rock mass is  
unconstrained near  
slopes as normal stress  
on joints is small due to  
weight of the wedge.

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slope design methods  
8 1.4.1 Summary of  
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## **Rock Slope Engineering**

Exploration for a rock cut slope, which includes geologic explorations, data collection, and presentation of information, are vital to the design and construction of rock cut slopes. This section describes the required

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steps for the design of  
a new rock cut slope or  
the rehabilitation of an  
existing slope.

## **Rock Slope Design Guide**

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Due to the more complex nature of rock masses when compared to soils, rock slope engineering is a complex field that requires rock engineers and engineering geologists to work together for developing a site-specific model.



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**Engineering geology  
and rock slope  
stability - Part 2 ...**

Resources for Rock  
Slopes The analysis of  
rock slopes was central  
to the founding of  
Rocscience over 20  
years ago. Today, we  
have ten software  
solutions to help with  
all aspects of rock  
slope analysis, from  
the statistical analysis  
of rockfalls and rock  
topples to limit  
equilibrium and finite

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element slope stability  
analysis and much  
more. Slide2

## **Software for Modelling and Analyzing Rock Slopes**

Rock slope engineering involves the assessment of the risk of instability, the consequences of failure and remedial measures that can be taken in stabilizing...

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To clarify the seismic response of rock slopes with discontinuous structural planes and demonstrate the proposed joint analysis method for interpreting the dynamic response of the slope, this work takes an actual engineering project as an example. A two-dimensional (2D) dynamic FEM analysis

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is performed on a rock slope.

## **Numerical study on seismic response of a rock slope with ...**

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

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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.

**Rock Slope  
Engineering: Civil  
Applications, Fifth  
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Ramamurthy,  
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## **Engineering in Rocks for Slopes, Foundations and Tunnels ...**

Slope stability refers to  
the condition of  
inclined soil or rock  
slopes to withstand or

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undergo movement.

The stability condition of slopes is a subject of study and research in soil mechanics, geotechnical engineering and engineering geology.

## **Slope stability analysis - Wikipedia**

The text covers a wide range of topics related to engineering behaviour of rocks and rock masses, their classifications,

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interpretation of geological mapping of joints through stereographic projection, in situ stress measurements, laboratory and field tests, stability of rock slopes, foundations of structures, including dams and support systems for underground excavations.

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In order to overcome the size limitation of normal diamond drill core, some slope stability engineers have used large diamond core bits (8 to 10 inches, 200 to 250 mm) mounted on concrete coring rigs which are bolted to the rock face.

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