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The text covers a wide range of topics related to engineering behaviour of rocks and rock masses, their classifications, interpretation of geological mapping of joints through stereographic projection, in situ stress measurements, laboratory and field tests, stability of rock

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slopes, foundations of
structures, including
dams and support
systems for
underground
excavations.

Failure Modes in Rock and Soil Slopes | Slope Failure ...

The principal difficulty
in the design and
analysis of rock slopes
and foundations is the
DIANE nature of near-
surface rock masses.
As engineers are called

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upon to make ever
more ambitious
designs, so the need to
incorporate the DIANE
features into a design
becomes paramount.

Rock Slope Engineering

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Figure 2: Sheet jointing in granite. These features, sometimes

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referred to as 'onion skin' joints, are the result of exfoliation processes during cooling of the granite. A slope stability problem in Hong Kong. 3 Figure 3: A rock slide on a road caused by the undercutting of sheet joints in a granite slope.

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of Rock Slopes in

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Rock Slope Engineering

was published in three

editions (1974, 1977

and 1981) by the
Institute of Mining and
Metallurgy in London.

The original research
for the book at the

University of London

was sponsored by the
mining industry in

response to a need to
develop design

methods for increas-
ingly deep open pits.

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Harmonizing engineering geology with rock engineering for assessing rock slope stability. The construction, design, remediation and maintenance of rock slopes have always been an important area in geo-engineering.

**Engineering geology
and rock slope**

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The engineering geological model of a rock slope is a comprehensive expression of the various factors which affect the slope stability, and in general, includes the following principal contents: (i) the basic geologic conditions of the slope, (ii) mechanical properties of rock mass and discontinuities, (iii)

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principal artificial and natural dynamic factors affecting the stability (groundwater, earthquake etc.), (iv) the developing process and characteristics of the rock mass deformation ...

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With the ever-increasing developmental

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activities as diverse as the construction of dams, roads, tunnels, underground powerhouses and storage facilities, petroleum exploration and nuclear repositories, a more comprehensive and updated understanding of rock mass is essential for civil engineers, engineering geologists, geophysicists, and petroleum

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Popularly known as landslides, slope failures describe a wide variety of mechanisms that cause the outward or downward movement of slope-forming materials like rock, soil or landfills. Landslide can result either from rock failure or soil failure. While in

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rock the failure plane is predetermined, in soil failure,...

Rock Slope Engineering

Graduates with a geological engineering degree may be employed in the business, government and engineering industries. They may find work in: Petroleum mining. Coal, oil or gas production. Renewable energy engineering.

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remediation. Slope
stability analysis.

Rock Engineering: Rock Slopes

The three fundamental engineering geologic factors featured in the design and construction of rock slopes are: lithology, structure, and grade of weathering. This paper discusses the influence

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of these factors in the construction of rock slopes, as illustrated by some case studies from local highway projects.

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

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focuses on the
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simple methods of
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assessment of the risk of instability, the consequences of failure and remedial measures that can be taken in stabilizing rock slopes.

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**A short course in
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engineering ...**

Rock Slopes The
Geotechnical Section
provides rock slope
recommendations for
new and existing sites
where construction

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requires removal of bedrock in the back slope. Rock slope recommendations are provided for new and existing rock cuts to accommodate new road alignments, widening of roadways, or for stabilizing existing rock slopes or

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Northwestern Ohio.
Northwestern Ohio is dominated by carbonate rocks (limestones and dolomite), which are generally not exposed in this region except in quarries and deep river valleys.