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reinforcement type is more and more used in slope engineering, at the present stage most of the projects are designed by engineer experiences, theory researches are hysteretic, load transfer and mechanics characters are not clear. Combining with ...

FEM Analysis on Slope Step Reinforcement Micro-Pile

...

This paper mainly focuses on the analysis of some simple soil slopes using finite element method (FEM). This is not a very new concept, but not so practiced in the field of geotechnical...

(PDF) A DETAILED ANALYSIS OF SLOPE STABILITY USING FINITE ...

numerical modelling (FEM in combination with SSR analysis) of rock slopes. It will evaluate the probabilities of failure of two slope examples. The first example will involve uncertainty associated with strength parameters. The second will evaluate the impact of joint network geometry randomness has on the stability of a slope in blocky rock. 2.

Probabilistic Slope Analysis with the Finite Element Method

The work here presented deals with the analysis of slopes stability through two different FEM softwares, evaluating the resultant factor of safety by means of comparing the generated stress paths of ten (10) selected stress points along the slip surface.

Slope stability analysis with FEM

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The Shear Strength Reduction (SSR) technique of Finite Element (FE) slope stability analysis is a simple approach that involves a systematic search for a stress reduction factor (SRF) or factor of safety value that brings a slope to the very limits of failure.

Stability Analysis of Rock Slopes using the Finite Element ...

This document outlines the capabilities of the finite element method in the analysis of slope stability problems. The manuscript describes the constitutive laws of material behaviour such as the Mohr-Coulomb failure criterion, and material properties input parameters, required to adequately model slope failure.

Application of the Finite Element Method to Slope Stability

The paper describes several examples of finite element slope stability analysis with comparison against other solution methods, including the influence of a free surface on slope and dam stability....

(PDF) Slope stability analysis by finite elements

The following notes are a summary from "Fundamentals of Finite Element Analysis" by David V. Hutton

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Introduction to Finite Element Analysis (FEA) or Finite

...

The use of the two-dimensional (2D) finite element method (FEM) has become a trend in slope stability analysis and has been widely adopted by engineers.

Investigation of dilatancy angle effects on slope ...

In this example we will be performing a slope stability analysis with and without the use of soil nails. A building is located on the top of the slope. Soil mass settlements and movements at the building can be evaluated with the finite element analysis method (DeepFEM, additional module available to any DeepEX version).

Slope Stability Analysis and Finite Element Analysis ...

The Figures show that the equivalent plastic strain near the toe of the slope of these two methods is increasing rapidly with the iteration step. The strain area of the field variable method goes through the top of the slope and also the strain area of the conventional method almost goes through the top of the slope.

A Method for Dividing the Soil Layers of a Slope in Finite ...

For 45° reinforced slope, non-circular slip surface originating from slope crest slightly away from slope face is observed from both FEM analysis as well as experimentally. However, PLAXIS also gives a base failure in contrast to slope failure found by testing.

Analysis of a Nailed Soil Slope Using Limit Equilibrium

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1.2 3D FEM-SSR slope stability analysis The finite element method (FEM) has been extensively used to analyze various geotechnical problems. To perform slope stability analysis with the FEM, the SSR technique dictates that the soil shear-strength is gradually reduced until failure conditions occur. The factor of safety (FOS) for a SSR analysis

COMPARISON OF 3D FINITE ELEMENT STABILITY ANALYSIS WITH 3D ...

The finite element method is the most widely used method for solving problems of engineering and mathematical models. Typical problem areas of interest include the traditional fields of structural analysis, heat transfer, fluid flow, mass transport, and electromagnetic potential. The FEM is a particular numerical method for solving partial differential equations in two or three space variables. To solve a problem, the FEM subdivides a large system into smaller, simpler parts that are called fini

Finite element method - Wikipedia

Slope stability analysis is a static or dynamic, analytical or empirical method to evaluate the stability of earth and rock-fill dams, embankments, excavated slopes, and natural slopes in soil and rock. Slope stability refers to the condition of inclined soil or rock slopes to withstand or undergo movement. The stability condition of slopes is a subject of study and research in soil mechanics, geotechnical engineering and engineering geology. Analyses are generally aimed at understanding the cau

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Slope stability analysis - Wikipedia

In the calculation, the excavation of the slope is completed within about 35 days, which is simulated by releasing the initial stress with 500 steps (0.2 %/step, 6,000 sec/step). After the completion of cut, 30,000 steps calculation with a time interval of 6,000 sec/step is conducted to simulate the dissipation process of negative excess pore water pressure caused by the excavation of the slope.

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