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Stability Analysis (modeling with multiple

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Stability based on F.E. Stresses Analysis
Slope Stability using SLOPE/W software
3D slope stability modeling \u0026 its
interoperability with interferometric radar
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SLOPE/W Chapter 1: Introduction Page
1 1 Introduction Analyzing the stability of earth structures is the oldest type of numerical analysis in geotechnical engineering. The idea of discretizing a potential sliding mass into slices was introduced early in the 20th Century.

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Slope stability analysis. SLOPE/W is the leading slope stability software for soil and rock slopes. SLOPE/W can effectively analyze both simple and complex problems for a variety of slip surface shapes, pore-water pressure conditions, soil properties, and loading conditions.

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With this comprehensive range of features, SLOPE/W can be used to analyze almost any slope stability problem you will encounter in your geotechnical, civil, and mining engineering projects.

SLOPE/W

Students first model the slope stability of

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the 1973 slope by playing with the values of cohesion, internal friction and pore water pressure, and assume this pre-fill slope is stable. Students then add the fill layer from the 1983 profile, and select values for the cohesion, internal friction and pore water pressure that result in a factor of safety of less than one.

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Modeling Slope Stability Using a Local
Landslide and SLOPE/W

Stability Modeling with SLOPE/W

SLOPE/W is the leading slope stability
software for soil and rock slopes.

SLOPE/W can effectively analyze both
simple and complex problems for a variety

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Slope International and that it now had a graphical user interface. SLOPE/W was the very first geotechnical software product available commercially for analyzing slope stability. Currently, SLOPE/W is being used by thousands of professionals both in education and in practice. Over the years, as computer

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technology has advanced, SLOPE/W has continually been ...

SLOPEW_Engineering_Book.pdf -
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SLOPE/W ' s full-featured capability allows for the stability analysis of natural soil and rock slopes under a variety of

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conditions including surcharge and seismic loading, pore-water pressure fluctuations in the saturated and unsaturated zone, and more. An extensive material model library and flexible search techniques provide the capacity to handle the most complicated failure mechanisms possible in the field of geotechnical engineering.

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Slope/W – Ottegroup

SLOPE/W can model almost any stability problem, including: Natural soil and rock slopes ; Construction excavations ; Earthen dams and levees ; Open-pit highwalls ; Reinforced earth structures; Slope stabilization design; Slopes with

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Surcharge or seismic loading; Dam stability during rapid drawdown; Partially and totally submerged slopes

GEOSLOPE > Products > SLOPE/W > Features

There is a steady state seepage file and two “ child ” SLOPE/W analyses. The two

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SLOPE/W analyses both point to their “parent” seepage analysis for detailed pore-water pressure information. The difference in the two SLOPE/W files is that, in one, the effects of added strength due to “suction” is included.

SEEP/W generated pore-water pressures

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Using finite element computed stresses in SLOPE/W makes it possible to conduct a rigorous stability analysis using the same stress values resulting from the deformation analysis. In addition, you can use SIGMA/W stresses as the initial stress state for a dynamic earthquake analysis in

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QUAKE/W. Use SIGMA/W pore-water pressures in SLOPE/W or SEEP/W

GeoStudio - GEOSLOPE

GEO-SLOPE International Ltd, Calgary,
Alberta, Canada www.geo-slope.com

SLOPE/W Example File: Sheet pile
wall.doc (pdf) (gsz) Page 4 of 6 1.525

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Passive wedge Line Load 270 kN Figure 5
Critical slip surface and factor of safety It
is always a habit to use the view slice
information feature in CONTOUR to
examine the loading acting on the slope.

Sheet pile wall - GEO-SLOPE
International

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Integration of SEEP/W with SLOPE/W makes it possible to analyze the stability of any natural or man-made system subject to transient changes in pore-water pressure. Seamlessly combine SEEP/W and SEEP3D, to analyze 2D and 3D groundwater flow in the same project file.

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SEEP/W +3D - GEOSLOPE

SLOPE/W can effectively analyze both simple and complex problems for a variety of slip surface shapes, pore-water pressure conditions, soil properties, and loading conditions. With this comprehensive range of features, SLOPE/W can be used to analyze almost any slope stability problem

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you will encounter in your geotechnical,
civil, and mining engineering project

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SVSLOPE® represents the new standard
in 2D/3D slope stability analysis. Users
can perform classic limit equilibrium slope

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analysis of soil or rock slopes by the method of slices or newer stress-based methods. Comprehensive 2D slip surface searching and pore-water pressure conditions and innovative 3D spatial analysis allow modeling at new levels.

SVSLOPE - 2D/3D LEM Slope Stability

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These free training videos replicate our onsite workshops. These resources will allow you to host your own geotechnical modeling workshop for a group of engineers or your own individual training.

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Online Workshops - GEOSLOPE
slope stability analysis. This is due mainly
to the fact that the effects of soil variability
and vegetation are complex and difficult to

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quantify. Furthermore, the available slope stability analysis computer programs used in practice, which adopt conventional limit equilibrium methods, are unable to consider these factors.

Modelling the Stability of Natural Slopes
Scoops3D evaluates slope stability

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throughout a digital landscape represented by a digital elevation model (DEM). The program uses a three-dimensional (3D) method of columns limit-equilibrium analysis to assess the stability of many potential landslides (typically millions) within a user-defined size range.

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The slope stability analysis results of the dual-permeability model show that the minimum local factor of safety is smaller, and the failure area is larger compared with the single- permeability model results.

How to Use COMSOL Multiphysics for

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Each individual the actual slope stability modeling using the elevation profile can subsequently be used for CHASM algorithm. The latter requires several multiple model runs with varying boundary additional inputs, e.g. a rainfall distribution over conditions or varying

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LISA uses Monte Carlo simulation of the infinite slope equation to estimate a probability of slope failure for use in relative stability assessment of natural

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Slopes. It runs on IBM PC-compatible personal computers under MS-DOS. Graphics capability and a math coprocessor are recommended but not required.

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