



ROCK SLOPE

DETERMINE THE FACTOR OF SAFETY OF A
PLANAR FAILURE IN ROCK
GEOTECHNICAL | E04

Summary

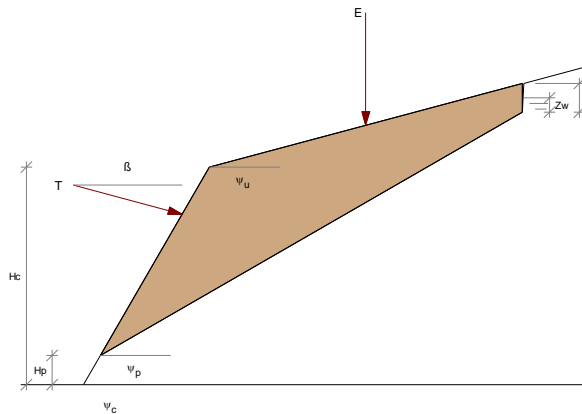
Rock Slope determines the factor of safety of a planar failure in rock.

What makes this module special?

- Deterministic and Probabilistic Analysis
- Graphical output
- Analysis results grouped on a Calcsheet

Detailed Description

Rock Slope determines the factor of safety (FOS) of a planar failure in rock. The deterministic analysis mode is supplemented by a probabilistic mode to evaluate the effect that the range of input values have on the FOS. The module obtains the probability density function of the FOS by using simulation techniques.



Theory used in this module

Except for the Pile Bearing module, all modules can perform deterministic analyses as well as a probabilistic analysis. With a probabilistic analysis you can consider variations in material properties and other parameters.

Distribution types that can be applied to material properties in a probabilistic analysis include uniform, triangular, exponential, normal, log normal and beta distributions. You can set the number of analysis iterations to perform and the required probability limit.