

## 1 FLAC/SLOPE

### 1.1 Introduction

#### 1.1.1 Overview

*FLAC/Slope* is a *mini*-version of *FLAC* that is designed specifically to perform factor-of-safety calculations for slope stability analysis. This version is operated entirely from *FLAC*'s graphical user interface, which provides for rapid creation of models for soil and/or rock slopes, and solution of their stability condition.

*FLAC/Slope* provides an alternative to traditional "limit equilibrium" programs for determining factor of safety. Limit equilibrium codes use an approximate scheme (typically based on the method of slices) in which a number of assumptions are made (e.g., the location and angle of interslice forces). Several assumed failure surfaces are tested, and the one giving the lowest factor of safety is chosen. Equilibrium is only satisfied on an idealized set of surfaces.

In contrast, *FLAC/Slope* provides a *full* solution of the coupled stress/displacement, equilibrium and constitutive equations. Given a set of properties, the system is determined to be stable or unstable. By automatically performing a series of simulations while changing the strength properties ("strength reduction technique" – see [Section 1.5\\*](#)), the factor of safety can be found to correspond to the point of stability, and the critical failure (slip) surface can be located.

*FLAC/Slope* does take longer to determine a factor of safety than a limit equilibrium program. However, with the advancement of computer processing speeds and multi-core CPUs, the multithreaded version of *FLAC* provides solutions in a reasonable amount of time. This makes *FLAC/Slope* a practical alternative to a limit equilibrium program, and provides advantages over a limit equilibrium solution (e.g., see Dawson and Roth 1999, and Cala and Flisiak 2001):

1. Any failure mode develops naturally; there is no need to specify a range of trial surfaces in advance.
2. No artificial parameters (e.g., functions for interslice force angles) need to be given as input.
3. Multiple failure surfaces (or complex internal yielding) evolve naturally, if the conditions give rise to them.
4. Structural interaction (e.g., rockbolt, soil nail or geogrid) is modeled realistically as fully coupled deforming elements, not simply as equivalent forces.
5. The solution consists of mechanisms that are kinematically feasible. (Note that the limit equilibrium method only considers forces, not kinematics.)

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\* Also, see [Section 1](#) in **Factor of Safety** of the *FLAC* manual for an overview of the strength reduction technique and comparison to limit equilibrium and limit analysis techniques.

# Flac Slope Manual

**Raffaella Di Napoli**



## **Flac Slope Manual:**

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