

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.)

* 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

DP Hallahan



Flac Slope Manual:

This book delves into Flac Slope Manual. Flac Slope Manual is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Flac Slope Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Flac Slope Manual
- Chapter 2: Essential Elements of Flac Slope Manual
- Chapter 3: Flac Slope Manual in Everyday Life
- Chapter 4: Flac Slope Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Flac Slope Manual. The first chapter will explore what Flac Slope Manual is, why Flac Slope Manual is vital, and how to effectively learn about Flac Slope Manual.
3. In chapter 2, the author will delve into the foundational concepts of Flac Slope Manual. The second chapter will elucidate the essential principles that must be understood to grasp Flac Slope Manual in its entirety.
4. In chapter 3, the author will examine the practical applications of Flac Slope Manual in daily life. This chapter will showcase real-world examples of how Flac Slope Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Flac Slope Manual in specific contexts. The fourth chapter will explore how Flac Slope Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Flac Slope Manual. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Flac Slope Manual.

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