

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

**W. Lacerda, Mauricio Ehrlich, S.A.B.
Fontoura, A.S.F. Sayao**



Flac Slope Manual:

Landslides: Evaluation and Stabilization/Glisement de Terrain: Evaluation et Stabilisation, Set of 2 Volumes

W. Lacerda, Mauricio Ehrlich, S.A.B. Fontoura, A.S.F. Sayao, 2004-06-15 These volumes comprise the Proceedings of the Ninth International Symposium on Landslides held in Rio de Janeiro Brazil from June 28 to July 2 2004 A wealth of the latest information on all aspects of landslide hazard encompassing geological modelling and soil and rock mechanics landslide processes causes and effects and damage avoidance and limitation strategies Proceedings of the Indian Geotechnical Conference 2019 Satyajit Patel, C. H. Solanki, Krishna R. Reddy, Sanjay Kumar Shukla, 2021-04-29 This book comprises select

proceedings of the annual conference of the Indian Geotechnical Society The conference brings together research and case histories on various aspects of geotechnical and geoenvironmental engineering The book presents papers on geotechnical applications and case histories covering topics such as i Characterization of Geomaterials and Physical Modelling ii

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proceedings of the Third International Conference on Environmental Geotechnology Recycled Waste Materials and Sustainable Engineering EGRWSE 2022 It covers state of the art research on environmental geotechnology sustainability and use of recycled waste materials for civil infrastructure along with latest accomplishments trends concerns innovations practical challenges encountered and the solutions adopted in this field Given the contents this book is useful for researchers engineers and professionals working in the areas of geoenvironmental engineering waste management and sustainable engineering and associated fields **Landslides from Massive Rock Slope Failure** Stephen G. Evans, 2006-07-20

Proceedings of the NATO Advanced Research Workshop on Massive Rock Slope Failure New Models for Hazard Assessment Celano Italy 16 21 June 2002 Rock Mechanics for Natural Resources and Infrastructure Development - Full Papers Sergio

A.B. Fontoura, Ricardo Rocca, José Mendoza, 2019-09-03 Rock Mechanics for Natural Resources and Infrastructure

Development contains the proceedings of the 14th ISRM International Congress ISRM 2019 Foz do Iguaçu Brazil 13 19

September 2019 Starting in 1966 in Lisbon Portugal the International Society for Rock Mechanics and Rock Engineering

ISRM holds its Congress every four years. At this 14th occasion the Congress brings together researchers, professors, engineers and students around contemporary themes relevant to rock mechanics and rock engineering. Rock Mechanics for Natural Resources and Infrastructure Development contains 7 Keynote Lectures and 449 papers in ten chapters covering topics ranging from fundamental research in rock mechanics laboratory and experimental field studies and petroleum mining and civil engineering applications. Also included are the prestigious ISRM Award Lectures: the Leopold Muller Award Lecture by professor Peter K. Kaiser and the Manuel Rocha Award Lecture by Dr. Quinghua Lei. Rock Mechanics for Natural Resources and Infrastructure Development is a must read for academics, engineers and students involved in rock mechanics and engineering. Proceedings in Earth and Geosciences Volume 6: The Proceedings in Earth and Geosciences series contains proceedings of peer-reviewed international conferences dealing in earth and geosciences. The main topics covered by the series include geotechnical engineering, underground construction, mining, rock mechanics, soil mechanics and hydrogeology.

Landslides and Engineered Slopes. From the Past to the Future, Two Volumes + CD-ROM Zuyu Chen, Jian-Min Zhang, Ken Ho, Fa-Quan Wu, Zhong-Kui Li, 2008-06-11. 270 Expert contributions on aspects of landslide hazards encompassing geological modeling and soil and rock mechanics, landslide processes, causes and effects and damage avoidance and limitation strategies. Reference source for academics and professionals in geo-mechanical and geo-technical engineering and others involved with research. Design Manual for Solar Heating of Buildings and Domestic Hot Water Richard L. Field, 1980. *Slope Stability 2000* D. V. Griffiths, Gordon A. Fenton, Timothy R. Martin, 2000. GSP 101 contains 26 papers on slope stability presented at sessions at Geo Denver 2000 held in Denver, Colorado, August 5-8, 2000. *Mine Planning and Equipment Selection 1998* Raj K. Singhal, 1998-01-01. This work details the findings of the 7th International Conference on Mine Planning and Equipment Selection of 1998 held in Calgary. Topics include design and planning of surface and underground mines, geotechnical stability in surface and underground mines and mining and the environment. *Advanced Technology in Exploration and Exploitation of Minerals 2nd MEAI*, 2014-01-01. Proceedings of the Congress of the International Society for Rock Mechanics International Society for Rock Mechanics, 1991. **Canadian Geotechnical Journal**, 2008. Fast Slope Movements: Prediction and Prevention for Risk Mitigation Luciano Picarelli, 2003. *Proceedings Fourth Nepal Geological Congress*, 2004. **Mine Planning and Equipment Selection**, 2000. *Canadian Geotechnical Journal* National Research Council Canada, 1998. **Journal of Nepal Geological Society**, 2004. *Slope Stability 2007* Yves Potvin, 2007. Dissertation Abstracts International, 2005. *Prediction, Analysis and Design in Geomechanical Applications* Giovanni B. Barla, Marco Barla, 2005.

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web v i r i v r as you can see in this circuit diagram we use an r1 load resistor to convert current into voltage in this circuit a voltage divider is used but we can also use an operational amplifier to step down the voltage across the load resistor how to measure the secondary side current of ct

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web you mean with a microcontroller the impedance note about analog sources probably means that if the sources are higher than 2.5k the input on the pic will start to load them down you usually want a source impedance to be at least ten times smaller than the load impedance so that it is not disturbed by the load impedance

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web the pic micro reads the input voltage through one of the 8 analog channels and convert it to a 10 bit digital number using the internal adc doing some math with adc conversion you will see later this number can be converted to the actual measured voltage the voltage is displayed in an hd44780 based character lcd

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web jun 27 2017 so we see that there are some parameters of ac voltage such as peak voltage rms voltage line frequency wave shape etc in this project we will not measure the wave shape we will measure the peak voltage rms voltage and line

frequency to make the project easy and understandable

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thought of using an op amp in the inverting mode to make voltage positive and then feed it to the adc of the microcontroller however here i would have to power the opamp with a negative power supply right

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web the pic18f4520 is a 40pin microcontroller with numerous functions and applications one of its many functions is analog to digital conversion through this the pic is capable of reading an analog voltage and turning it into a digital readout that can be used in a program the circuitry and code required to create a basic voltage sensor is minimal

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web apr 25 2016 my answer would be get a shunt type reference for a voltage that is lower than the battery range of interest let s assume a 5v battery and a tl431 or the like as 2 5v reference now measure the tl431 voltage using the battery as reference assume a 10 bit a d most common that reads n now you know that n battery 1023 2 5

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