

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

**Yeliz Yukselen-Aksoy, Krishna R.
Reddy, Arvind Kumar Agnihotri**

Flac Slope Manual:

FLAC and Numerical Modeling in Geomechanics Christine Detournay, Roger Hart, 2020-12-18 Sixty five papers cover a wide range of topics from engineering applications to theoretical developments in the areas of embankment and slope stability underground cavity design and mining dynamic analysis soil and structure interaction and coupled processes and fluid flow

Glissement de Terrain : Evaluation Et Stabilisation Willy Alvarenga Lacerda, 2004 *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 Foundations and Deep Excavations iii Soil Stabilization and Ground Improvement iv Geoenvironmental Engineering and Waste Material Utilization v Soil Dynamics and Earthquake Geotechnical Engineering vi Earth Retaining Structures Dams and Embankments vii Slope Stability and Landslides viii Transportation Geotechnics ix Geosynthetics Applications x Computational Analytical and Numerical Modelling xi Rock Engineering Tunnelling and Underground Constructions xii Forensic Geotechnical Engineering and Case Studies and xiii Others Topics Behaviour of Unsaturated Soils Offshore and Marine Geotechnics Remote Sensing and GIS Field Investigations Instrumentation and Monitoring Retrofitting of Geotechnical Structures Reliability in Geotechnical Engineering Geotechnical Education Codes and Standards and other relevant topics The contents of this book are of interest to researchers and practicing engineers alike

Sustainable Earth and Beyond Yeliz Yukselen-Aksoy, Krishna R. Reddy, Arvind Kumar Agnihotri, 2023-07-31 This book presents select 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

Computer Information Systems and Industrial Management Khalid Saeed, Václav Snášel, 2014-10-25 This book constitutes the proceedings of the 13th IFIP TC 8 International Conference on Computer Information Systems and Industrial Management CISIM 2014 held in Ho Chi Minh City Vietnam in November 2014 The 60 paper presented in this volume were carefully reviewed and selected from 98 submissions They are organized in topical sections named algorithms biometrics and biometrics applications data analysis and information retrieval industrial management and other applications modelling and optimization networking pattern recognition and image processing and various aspects of computer security

Beyond Databases, Architectures and Structures Stanisław Kozielski, Dariusz

Mrozek, Paweł Kasprowski, Bożena Małysiak-Mrozek, Daniel Kostrzewa, 2015-04-28 This book constitutes the refereed proceedings of the 11th International Conference entitled Beyond Databases Architectures and Structures BDAS 2015 held in Ustro Poland in May 2015 This book consists of 53 carefully revised selected papers that are assigned to 8 thematic groups database architectures and performance data integration storage and data warehousing ontologies and semantic web artificial intelligence data mining and knowledge discovery image analysis and multimedia mining spatial data analysis database systems development application of database systems *Geotechnical Engineering for Disaster Mitigation and Rehabilitation* Han-Long Liu, An Deng, Jian Chu, 2009-02-18 Geotechnical Engineering for Disaster Mitigation and Rehabilitation presents the latest developments and case studies in the field All contributions to this proceedings were rigorously reviewed to cover the newest developments in disasters related to earthquakes landslides and slopes soil dynamics risk assessment and management disaster mitigation and rehabilitation and others The book will be a useful reference for geotechnical scientists engineers and professionals in these areas *Landslides from Massive Rock Slope Failure* Stephen G. Evans, Gabriele Scarascia Mugnozza, Alexander Strom, Reginald L. Hermanns, 2007-05-17 Amongst the thematic topics discussed are global frequency impacts on society analysis of initial rock slope failure monitoring of rock slope movement analysis and modeling of post failure behaviour volcanic landslides and influences of massive rock slope failure on the geomorphological evolution of mountain regions Regional contributions include reports on rockslides and rock avalanches in Norway western Canada the Andes of Argentina the Karakoram Himalaya the European Alps the Appennines and the mountains of Central Asia Rockslides and rock avalanches in the Central Asian republics of the former Soviet Union are discussed in detail for the first time in an English language book These landslides include the 1911 Usoi rockslide that dammed 75 km long Lake Sarez and the 1949 Khait rock avalanche that may have killed up to 28 000 people Both landslides were earthquake triggered and both are located in Tajikistan An additional highlight is a detailed description and analysis of large scale artificial rock avalanches triggered by underground nuclear explosions during the testing programme of the former Soviet Union **FLAC and Numerical Modeling in Geomechanics - 2001** D. Billiaux, C. Detournay, R. Hart, X. Rachez, 2020-12-17 A collection of 54 papers selected for presentation at the 2nd FLAC Symposium The contributions cover a wide range of topics from engineering applications to theoretical developments in the areas of embankment and slope stability mining tunnelling and soil and structure interaction *Sustainable and Innovative Mining Practices* Amit Kumar Gorai, Sahendra Ram, Ram Manohar Bishwal, Santanu Bhowmik, 2024-11-16 Sustainable mining is need of hour to fulfil the increasing energy demand of the country and at the same time reduction in rate of carbon emission at utmost priority Any mining project has significant health safety and environmental issues and thus sustainable solutions for all these issues need to be addressed Currently the mining practitioners and industry bodies facing multiple challenges before to maintain the requirement of energy demand of the country and address of the environmental issues through sustainable and innovative

mining practices This book covers the latest advancement in the process technology equipment etc for adopting sustainable mining practices It will offer an adequate resource to all the mining and associated academicians and industry professionals to gain the knowledge of latest tools and solutions for sustainable mining The proposed book will be chaptered based on the themes like Environmental Monitoring Management Safety health operations planning automation digitalization waste management and new tools and technologies for sustainable mining Many case studies of different types of mines will be demonstrated to know the actual practice of the mine and their typical solutions

Technical Manual for Design and Construction of Road Tunnels--civil Elements, 2010 The increased use of underground space for transportation systems and the increasing complexity and constraints of constructing and maintaining above ground transportation infrastructure have prompted the need to develop this technical manual This FHWA manual is intended to be a single source technical manual providing guidelines for planning design construction and rehabilitation of road tunnels and encompasses various types of road tunnels P ix

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

Earthquake Engineering for Dams and Reservoirs Jonathan Hinks, 2023-09-25 Earthquake Engineering for Dams and Reservoirs is an invaluable source for any engineer or designer tasked with building retrofitting or maintaining dams in all seismically active regions to make decisions on the type of dam structure required for new projects and understand the issues that face existing dams and how to mitigate them

Eco- and Ground Bio-Engineering: The Use of Vegetation to Improve Slope Stability A. Stokes, Ioannis Spanos, Joanne E. Norris, Erik Cammeraat, 2007-04-10 This volume brings together papers from geotechnical and civil engineers biologists ecologists and foresters They discuss current problems in slope stability research and how to address them using ground bio and eco engineering techniques Coverage presents studies by scientists and practitioners on slope instability erosion soil hydrology mountain ecology land use and restoration and how to mitigate these problems using vegetation

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

Guidelines for Mine Waste Dump and Stockpile Design Mark Hawley, John Cuning, 2017-04-01 *Guidelines for Mine Waste Dump and Stockpile Design* is a comprehensive practical guide to the investigation design operation and monitoring of mine waste dumps dragline spoils and major stockpiles associated with large open pit mines These facilities are some of the largest man made structures on Earth and while most have performed very well there are cases where instabilities have occurred with severe consequences including loss of life and extensive environmental and economic damage Developed and written by industry experts with extensive knowledge and experience this book is an initiative of the Large Open Pit LOP Project It comprises 16 chapters that follow the life cycle of a mine waste dump dragline spoil or stockpile from site selection to closure and reclamation It describes the investigation and design process introduces a comprehensive stability rating and hazard classification system provides guidance on acceptability criteria and sets out the key elements of stability and runout analysis Chapters on site and material characterisation surface water and groundwater characterisation and management risk assessment operations and monitoring management of ARD emerging technologies and closure are included A chapter is also dedicated to the analysis and design of dragline spoils *Guidelines for Mine Waste Dump and Stockpile Design* summarises the current state of practice and provides insight and guidance to mine operators geotechnical engineers mining engineers hydrogeologists geologists and other individuals that are responsible at the mine site level for ensuring the stability and performance of these structures Readership includes mining engineers geotechnical engineers civil engineers engineering geologists hydrogeologists environmental scientists and other professionals involved in the site selection investigation design permitting construction operation monitoring closure and reclamation of mine waste dumps and stockpiles

Guidelines for Open Pit Slope Design John Read, Peter Stacey, 2009-11-09 *Guidelines for Open Pit Slope Design* is a comprehensive account of the open pit slope design process Created as an outcome of the Large Open Pit LOP project an international research and technology transfer project on rock slope stability in open pit mines this book provides an up to date compendium of knowledge of the slope design processes that should be followed and the tools that are available to aid slope design practitioners This book links innovative mining geomechanics research into the strength of closely jointed rock masses with the most recent advances in numerical modelling creating more effective ways for predicting rock slope stability and reliability in open pit mines It sets out the key elements of slope design the required levels of effort and the acceptance criteria that are needed to satisfy best practice with respect to pit slope investigation design implementation and performance monitoring *Guidelines for Open Pit Slope Design*

comprises 14 chapters that directly follow the life of mine sequence from project commencement through to closure It includes information on gathering all of the field data that is required to create a 3D model of the geotechnical conditions at a mine site how data is collated and used to design the walls of the open pit how the design is implemented up to date procedures for wall control and performance assessment including limits blasting scaling slope support and slope monitoring and how formal risk management procedures can be applied to each stage of the process This book will assist in meeting stakeholder requirements for pit slopes that are stable in regards to safety ore recovery and financial return for the required life of the mine

Proceedings of the Indian Geotechnical Conference 2022 Volume 8 Babu T. Jose, Dipak Kumar Sahoo, Sanjay Kumar Shukla, A. Murali Krishna, Jimmy Thomas, V. Veena, 2024-07-13 This book comprises the select proceedings of the Indian Geotechnical Conference IGC 2022 The book focuses on recent developments in geotechnical engineering for a sustainable world The book covers behavior of soils and soil structure interaction soil stabilization ground improvement and land reclamation shallow and deep foundations geotechnical geological and geophysical investigation rock engineering tunneling and underground structures slope stability landslides and liquefaction earth retaining structures and deep excavations geosynthetics engineering geo environmental engineering sustainable geotechnics and landfill design geo hydrology dam and embankment engineering earthquake geotechnical engineering transportation geotechnics forensic geotechnical engineering and retrofitting of geotechnical structures offshore geotechnics marine geology and subsea site investigation computational analytical and numerical modeling and reliability in geotechnical engineering The book is useful to researchers and professionals alike

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

Design Manual for Solar Heating of Buildings and Domestic Hot Water Richard L. Field, 1980

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