



FLAC/SlopeTM VERSION 8.1

Explicit Continuum Factor-of-Safety Analysis of Slope Stability in 2D



ABOUT FLAC/SLOPE

FLAC/Slope is a special, streamlined version of FLAC for evaluating the factor of safety (FoS) of soil and rock slopes in two dimensions with simple and fast model setup, execution, and analysis. FLAC/Slope can simulate stability problems under a wide variety of slope conditions, including: arbitrary slope geometries, multiple layers, pore pressure conditions, heterogeneous soil properties, surface loading, and structural reinforcement.

FEATURES

GENERAL

- Provided free and with no time or size restrictions
- Simple user interface and workflow
- Specifically designed to perform multiple analyses and parametric studies for slope stability projects
- Failure mode develops naturally – no need to specify a slip surface or failure mechanism
- Predict multiple, interacting failure mechanisms (failures can propagate)
- Extensive solution controls and options
- Multi-threaded mechanical calculations
- Built-in PDF manual and examples

GRIDS and GEOMETRY

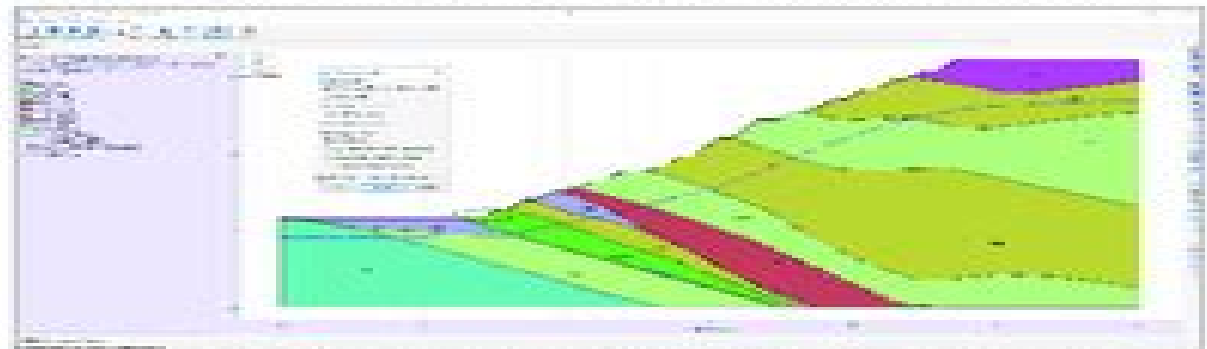
- Wizards for generating slope, bench, dam, and general surface grids
- Automatic/interactive matching tools

MATERIALS and MODELS

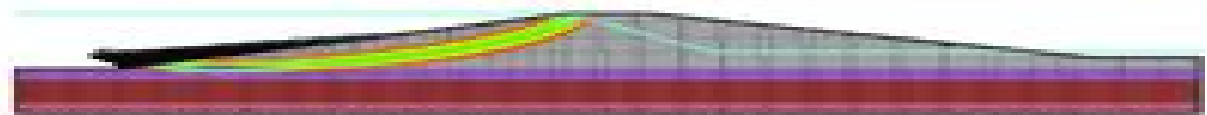
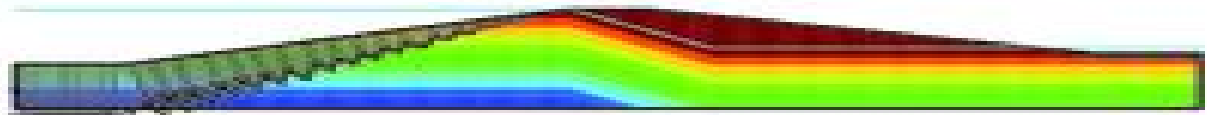
- Mohr-Coulomb, Hard-Drain, and Uplagrate Joint materials are available
- Built-in materials library includes gravel, sand, silt, clay, and rock properties
- Add, save, edit, and import/export your own material properties with the library
- Easily define geotechnical layers

BOUNDARIES and CONDITIONS

- Automatic boundary conditions
- Apply stresses (Isx, Isy, Sxy, normal, shear) and pressures (Ph, Pv)
- Cable structural support elements can be added as geosynthetic sheets or spaced (on-off) plates against soil reinforcement to simulate ground-structure interaction
- Easily add a water table to include pore pressures for effective stress calculations
- Add a Mohr-Coulomb interface to represent a weak plane (or fault, joint, or artificial boundaries)
- User-defined gravity settings



FLAC/Slope user interface showing the model geometry with the Geomech mesh, slope types, Geomech forces and moments, the water table, and an overlaid segment (the geogrids near the slope face) used for the analysis.



FLAC/Slope model of a dam showing the model area (left), pore water, pore pressures, and applied forces to represent the water head above the dam (middle), and the resulting moment/force plots, shear and normal stresses (center). The calculated FoS is 2.45 for this model.

Itasca Flac Manual 3d

Christine Detournay, Roger Hart



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