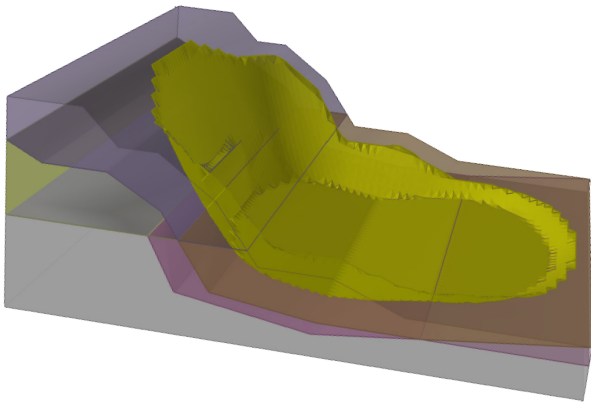
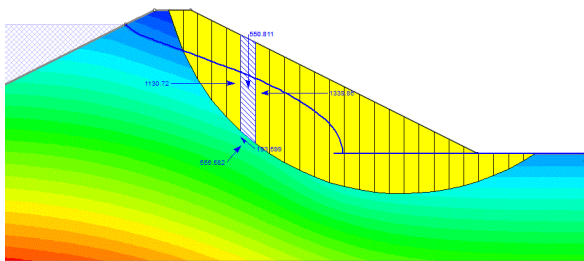


Kuala Lumpur TWO DAY WORKSHOP

2-Dimensional and 3-Dimensional Slope Stability Analysis

The objective of this course is to provide a background on numerical modelling for slope stability analysis using various *Rocscience* software tools (*Slide*, *RS²*, *RS³*, *Slide³*). Get the most out of the *Rocscience* slope stability suite through a balanced mixture of lectures and hands-on computer analysis using practical examples collected over the years.

October 11-12, 2017



Module I: Overview of limit-equilibrium methods for slope stability analysis

- Failure modes of soil and rock slopes
- Limit-equilibrium methods

Module II: Slope stability analysis (2D & 3D)

- Model building (Tips and Pitfalls)
- Material behavior models (anisotropic vs. isotropic material models)
- Interpretation of results

Module III: Selection of analysis methods

- Selection of method for locating minimum factor of safety
- Circular vs. non-circular failure surface analysis
- Failure Surface optimization techniques

Module IV: Probabilistic and sensitivity analysis

- Overview of basic statistical concepts and distribution
- Probability of failure
- Monte Carlo and Latin hypercube simulations
- Sensitivity analysis

Module V: Groundwater analysis (2D & 3D)

- Overview of groundwater analysis
- Seepage analysis using the finite element method (FEM)
- Permeability functions
- Influence of meshes on results; mesh selection and quality

Module VI: Slope stability analysis using the shear strength reduction method (2D & 3D)

- Application of FEM to slope stability analysis
- Shear Strength Reduction approach
- Jointed rock slope failure
- Deep seated slope failure
- Blocky rock mass slopes

Module VII: Slope stability analysis for jointed rock mass materials

- Implicit vs explicit joint modeling
- Modeling of Discrete Fracture Networks (DFN)

Location:

JW Marriott Kuala Lumpur
183, Bukit Bintang Street, Bukit Bintang,
55100 Kuala Lumpur

Cost:

USD \$500 for two day
\$100 special early bird discount (valid until Sept 10th)

Contact:

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