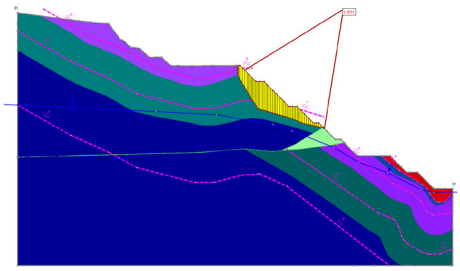


Tools Used

Slide2
2D Limit Equilibrium Analysis

RS2
2D Geotechnical Finite Element Analysis

RSPile
3D Pile Analysis

Location

Sheraton Grand Los Angeles
711 S Hope St., Los Angeles, CA

What's Included

- Breakfast, lunch, snacks, & refreshments
- Temporary Rocscience software licenses (see note below)
- Course material package
- Onsite WiFi

Fees

Registration Fee: $1,200 USD

Early Bird Fee: $1,100 USD
(ends February 7, 2020)

Rocscience Maintenance Plan subscribers receive a 10% discount on registration fees.

Register: courses@rocscience.com

Note

All attendees will be provided with temporary, one month Rocscience software licenses for the programs listed above. Attendees must bring a laptop with the licenses installed.

2D Numerical Modeling for Slope Stability, Seepage, and Excavation Analysis

Join us in April for a two-day workshop on 2D Numerical Modeling for Slope Stability, Seepage, and Excavation Analysis led by Dr. Alireza Azami, Geomechanics Specialist at Rocscience. This workshop will provide a background on numerical modeling for geotechnical applications using robust and powerful Rocscience Tools.

SCHEDULE

7:30AM	Breakfast
8:00AM–5:00PM	Course, with morning and afternoon breaks

DAY 1

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 for 2D Problems (Slide2)

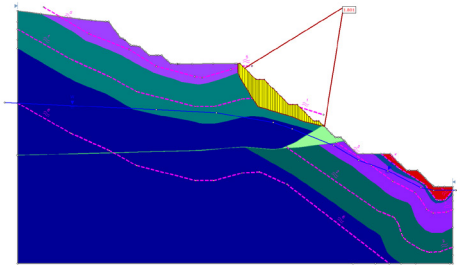
- Model building (Tips and Pitfalls)
- Material behavior models (anisotropic vs. isotropic)
- Interpretation of results

Module III: Selection of Analysis Methods (Slide2)

- Selection of method for locating minimum factor of safety
- Failure Surface optimization techniques

Module IV: Modelling Supports for Slope Stability Analysis (Slide2, RSPile)

- Selecting supports
- Introducing RSPile
- Landslide stabilization using piles



Tools Used

Slide2
2D Limit Equilibrium Analysis

RS2
2D Geotechnical Finite Element Analysis

RSPile
3D Pile Analysis

Location

Sheraton Grand Los Angeles
711 S Hope St., Los Angeles, CA

What's Included

- Breakfast, lunch, snacks, & refreshments
- Temporary Rocscience software licenses (see note below)
- Course material package
- Onsite WiFi

Fees

Registration Fee: $1,200 USD

Early Bird Fee: $1,100 USD
(ends February 7, 2020)

Rocscience Maintenance Plan subscribers receive a 10% discount on registration fees.

Register: courses@rocscience.com

Note

All attendees will be provided with temporary, one month Rocscience software licenses for the programs listed above. Attendees must bring a laptop with the licenses installed.

DAY 2

Module V: Introduction to the Finite Element Method for Geotechnical Problems (RS2)

- Model development (construction of geometry, meshing, loads and boundary conditions, analysis options)
- Material models and constitutive relationship
  - Classical material models (Mohr-Coulomb, Generalized Hoek-Brown)
  - Strain softening and cap models
  - Anisotropic material (explicit and implicit) models
- Interpretation of results

Module VI: Groundwater and Consolidation Analysis (RS2)

- Saturated-unsaturated transient groundwater analysis
- Permeability functions
- Boundary conditions
- Seepage analysis of staged excavations
- Consolidation analysis

Module VII: Support Analysis Tools (RS2)

- Support development
- Sequence design
- Support elements (forepoles, liners, bolts, structural elements)
- Interpretation of results

Module VIII: Slope Stability Analysis Using the Shear Strength Reduction Method (RS2)

- Application of FEM to slope stability analysis
- Shear Strength Reduction approach
- Case studies

Course Instructor
Alireza Azami, Ph.D.
Geomechanics Specialist

Dr. Alireza Azami holds his Ph.D. from McMaster University in Civil Engineering (Geomechanics). Dr. Azami joined Rocscience in 2010 and focuses primarily on the mechanical behaviour of geomaterials and groundwater flow. He is a key developer on Slide2, Slide3, RS2, and RS3, and has published many papers on the topic of Shear Strength Reduction (SSR) in Finite Element Analysis.