











GeoStudio™ 2007

One Model. One Tool. Many Analyses.



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|--|----------------|--------------------------------------|
|  | SLOPE/W® 2007 | Slope stability analysis. |
|  | SEEP/W® 2007 | Groundwater seepage analysis. |
|  | SIGMA/W® 2007 | Stress-deformation analysis. |
|  | QUAKE/W® 2007 | Dynamic earthquake analysis. |
|  | TEMP/W® 2007 | Thermal analysis. |
|  | CTRAN/W® 2007 | Contaminant transport analysis. |
|  | AIR/W® 2007 | Air flow analysis. |
|  | VADOSE/W® 2007 | Vadose zone and soil cover analysis. |

Typical Applications

GeoStudio applications can be used to model almost any geotechnical problem including:

- ▶ Slope stability problems involving earth and rock slopes, including sloping excavations, embankments, anchors, soil nails and geofabrics
- ▶ Seepage affected by infiltration, drains, and injection wells
- ▶ Deformation resulting from staged loading, excavations, and fill placement or removal
- ▶ Earthquake-induced deformation and pore-water pressure generation
- ▶ Contaminant transport problems
- ▶ Thermal conduction and transient freeze-thaw problems
- ▶ Unsaturated soil behavior
- ▶ plus many more!

The Geotechnical Software Suite

GeoStudio 2007 is a suite of applications for geotechnical and geo-environmental modelling. It includes the following software products:

- ▶ SLOPE/W for slope stability analysis
- ▶ SEEP/W for groundwater seepage analysis
- ▶ SIGMA/W for stress and deformation analysis
- ▶ QUAKE/W for dynamic earthquake analysis
- ▶ TEMP/W for thermal analysis
- ▶ CTRAN/W for contaminant transport analysis
- ▶ AIR/W for air flow analysis
- ▶ VADOSE/W for vadose zone and soil cover analysis

With GeoStudio 2007, you can analyze almost any problem you encounter in your geotechnical, geo-environmental, civil, and mining engineering projects.

Eight Integrated Applications

GeoStudio applications are integrated, allowing you to use the analysis results from one product in another one. This unique and powerful feature greatly expands the types of problems you can analyze. For example, use SIGMA/W to establish initial static stress conditions for a QUAKE/W dynamic earthquake analysis. Then use SEEP/W to dissipate the excess pore-water pressures calculated by QUAKE/W. Finally, use the resulting pore-water pressure and stress distributions in a SLOPE/W stability analysis.

Purchase All Products or One at a Time

You can purchase all eight GeoStudio applications for a special package price. Alternatively, you can obtain each application as required for different projects. For example, you might initially purchase SLOPE/W for a stability analysis, and then later acquire SEEP/W when you wish to consider groundwater seepage. This flexibility means you only pay for different analysis types as you require them.



Free Student Edition

The GeoStudio Student Edition is a free product designed as an aid to learning geotechnical numerical modeling. It is an ideal teaching tool for university professors both at the undergraduate and graduate levels. The software contains limited versions of SLOPE/W, SEEP/W, SIGMA/W, QUAKE/W, TEMP/W, CTRAN/W, AIR/W and VADOSE/W.

Requirements

- ▶ Pentium III with Microsoft Windows 2000, XP, or Vista (recommended: Intel dual-core processor with 1GB of RAM)
- ▶ 1024x768 display (recommended: 1280x1024 or higher)
- ▶ CD-ROM drive (for installation)
- ▶ USB Port

Common Features

- ▶ The common look and feel of each GeoStudio application means you can quickly learn how to use each product.
- ▶ Define and modify the problem geometry using CAD-like tools
- ▶ Interactively specify material properties and boundary conditions
- ▶ Use general data-point functions for material properties
- ▶ Import background pictures or DXF files
- ▶ View results as contours, x-y plots, vectors, or tables of data that can be exported to other applications
- ▶ Solve the analysis with iterative or direct equation solvers
- ▶ Get assistance using the context-sensitive, HTML help system
- ▶ Enhance the drawing by sketching lines and adding text labels that automatically update as parameter values change
- ▶ Select the Undo command when you wish to undo your changes
- ▶ Plus many more!

Product Integration

Examples of using analysis results from one product in another include:

- ▶ Pore-water pressures computed by SEEP/W, SIGMA/W or QUAKE/W can be used in a SLOPE/W stability analysis
- ▶ SIGMA/W static stresses or QUAKE/W dynamic stresses can be used in a SLOPE/W stability analysis
- ▶ SEEP/W pore-water pressures can be used in a SIGMA/W consolidation analysis
- ▶ SEEP/W pore-water pressures can be used in a CTRAN/W density-dependent contaminant transport analysis
- ▶ Excess pore-water pressures computed by QUAKE/W can be dissipated over time in a SEEP/W transient seepage analysis
- ▶ Static stress conditions computed by SIGMA/W can be specified as the initial stresses in a QUAKE/W dynamic analysis.

Join a growing network

By acquiring GEO-SLOPE software, you are joining a group located in more than 100 countries, including practising engineers, university professors, regulators, researchers and students. You can be assured that we will support and continue to enhance the software's engineering capabilities, making it even more powerful and easy to use.

Get help when you need it

When you need assistance with your model, we have helpful services available. Attend one of our workshops, or communicate directly with our experienced numerical modelling professionals. We'll help you to create better models and to gain confidence in your results.

Try out GeoStudio 2007 now!

We invite you to try out GeoStudio for yourself! Simply call (403) 269-2002 or visit www.geo-slope.com to receive a free CD-ROM.



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