

SLOPE/W 2007 Product Details

SLOPE/W 2007 Purchasing Options

GeoStudio 2007						
	Universal	Professional	Standard	SLOPE/W	Basic	Student (Free)
SLOPE/W	●	●	●	●	○	○
SEEP/W	●	●	●		○	○
SIGMA/W	●	●	●		○	○
QUAKE/W	●	●			○	○
TEMP/W	●	●			○	○
CTAN/W	●	●			○	○
AIR/W	●				○	○
VADOSE/W	●				○	○

Key: ● = Full edition (all features) ○ = Basic edition (limited features) ○ = Student edition (limited features)

SLOPE/W 2007 Feature Comparison

	● Full	○ Basic	○ Student
Number of multiple/staged analyses (within one file)	No limit	2	2
Number of regions	No limit	10	10
Number of materials	No limit	10	3
Finite Element Integration	No limit	500 elements	500 elements
Import regions from AutoCAD DXF files	Yes	No	No
Licensed for engineering consulting use	Yes	Yes	No
Analysis Methods			
Ordinary	Yes	Yes	Yes
Bishop Simplified	Yes	Yes	Yes
Janbu Simplified	Yes	Yes	Yes
Morgenstern-Price	Yes	Yes	Yes
Spencer	Yes	Yes	Yes
GLE	Yes	Yes	Yes
SIGMA/W finite element stress	Yes	Yes	Yes
QUAKE/W finite element stress	Yes	Yes	Yes
QUAKE/W Newmark Deformation	Yes	Yes	Yes
Corps of Engineers 1	Yes	No	No
Corps of Engineers 2	Yes	No	No
Lowe-Karafiath	Yes	No	No
Janbu Generalized	Yes	No	No
Sarman (Vertical Slice Only)	Yes	No	No
Advanced Features			
Probabilistic analysis	Yes	No	No
Sensitivity analysis	Yes	No	No
Staged Rapid Drawdown	Yes	No	No
Soil Strength Models			
Mohr-Coulomb	Yes	Yes	Yes
No strength (water)	Yes	Yes	Yes
Bedrock (impenetrable)	Yes	Yes	Yes
Undrained (Phi = 0)	Yes	No	No

SLOPE/W 2007 Feature Comparison (continued)	<input checked="" type="radio"/> Full	<input type="radio"/> Basic	<input type="radio"/> Student
Bilinear	Yes	No	No
S = f(depth)	Yes	No	No
S = f(datum)	Yes	No	No
Anisotropic Strength	Yes	No	No
Shear/Normal function	Yes	No	No
Anisotropic function	Yes	No	No
Combined, S = f(depth)	Yes	No	No
Combined, S = f(datum)	Yes	No	No
S = f(overburden)	Yes	No	No
Add-In material model (user defined)	Yes	No	No
Advanced Soil Parameters			
Unsaturated strength from Phi B or SWCC	Yes	No	No
Anisotropic function	Yes	No	No
Unsaturated unit weight	Yes	No	No
Steady-state strength for liquefied material	Yes	No	No
Water content function estimation	Yes	No	No
Slip Surface Options			
Grid and Radius	Yes	Yes	Yes
Entry and Exit	Yes	Yes	Yes
Optimize critical slip surface location	Yes	Yes	Yes
Fully Specified	Yes	Yes	No
Block Specified	Yes	Yes	No
Auto Locate	Yes	No	No
User defined axis point	Yes	No	No
Detail results on multiple critical slip surfaces	Yes	No	No
Pore-Water Pressure			
Ru	Yes	No	No
B bar	Yes	No	No
Piezometric lines	Yes	One line	One line
Piezometric line with Ru or B bar			
Phreatic correction	Yes	Yes	Yes
SEEP/W heads	Yes	Yes	Yes
SIGMA/W pwp	Yes	Yes	Yes
QUAKE/W pwp	Yes	Yes	Yes
VADOSE/W heads	Yes	No	No
Grid of pressure heads	Yes	No	No
Air Pressure interaction	Yes	No	No
External Loads			
Line Loads	Yes	Yes	No
Reinforcement Loads	Yes	No	No
Horizontal Seismic Loading	Yes	Yes	No
Vertical Seismic Loading	Yes	Yes	No
Surface Pressures	Yes	Yes	No
Tension Crack Options			
Tension crack line	Yes	Yes	No
Tension crack angle	Yes	Yes	No
Auto search for tension crack	Yes	No	No

SLOPE/W 2007 Feature Comparison (continued) Full Basic Student**Interslice Functions**

Constant	Yes	Yes	Yes
Half-sine	Yes	Yes	Yes
Clipped-sine	Yes	No	No
Trapezoidal	Yes	No	No
Fully Specified	Yes	No	No