

Ground	➤ Ground Stress and Tunnel Analysis • CAD Import Facilities • Construction Stage Analysis (FEM) • Nonlinear Static Analysis (FEM) • Advanced Material Models (Elastic / Mohr-Coulomb / Hoek-Brown / Duncan Chang) • Analysis Coupled with Seepage Analysis Results • Convenient Parametric Analysis through Change in Ko • Lining Analysis Reflecting Non-Prismatic Tapered Sections • Report Generator
Slope	➤ Slope Stability Analysis • Limit Equilibrium Method (considering Construction Stage) • Strength Reduction Method (considering Construction Stage) • Stress Analysis Method (considering Construction Stage) • Simultaneous Analysis for Dry/Rainy Seasons and Automatic Failure Surface • Circular/Non-Circular Arch Sliding Surface and Automatic Failure Surface • LEM Analysis Reflecting the Intensity of Precipitation or Seepage Effects • LEM Analysis Reflecting the Increase in Strength due to 1D Consolidation • Practical Reinforcement Materials (Nail / Pile / Anchor / Strip / Strut)
Rock	➤ StereoNET/LEM Analysis and Design • StereoNet Analysis / LEM Analysis • Auto-search for Failure Zone of StereoNet • Slope Modeling Wizard • Check roughness & filling between joints • Automatic arrangement for Reinforcements • Export StereoNet Results to LEM Analysis • Report Generator
Soft Ground	➤ Consolidation Analysis • Consolidation (FEM, considering Construction Stage) • 1-D Consolidation Theory Analysis • Advanced Soft Ground Material Models (Modified Cam Clay, Sekiguchi-Ohta) • Supporting Practice Oriented Drainage (PBD / SCP / GCP / SD / Pack Drain / CD / Fiber) • Parametric Analysis for Drainage Types and Spacing • Parametric Analysis for Preloading Heights • Checking Limit Embankment Heights Reflecting the Increase in Strength • Calculation for an Immediate Settlement of Soft Sandy Soils
Foundation	➤ Pile Foundation Analysis • Combined Lateral, Axial and Bending Loaded Piles (p-y Nonlinear Analysis) • Single and Two/Three-Dimensional Groups of Piles (p-y Nonlinear Analysis) • Settlement Checks for Various Foundation Types & Sizes • Analysis Reflecting Pile Head Conditions (Fixed/Hinged) • Preliminary Analysis Using Ground and Structural Material DB and Section DB

Seepage	➤ Seepage Analysis • Steady State Analysis (considering Construction Stage) • Transient Analysis (considering Construction Stage) • Fully Coupled Flow-Deformation Analysis • Mechanical Behavior of Partially Saturated Soils • Various Permeability Coefficient Functions and Function Property Curves • Reflection of Upward / Downward Seepage Forces • Slope Stability Analysis Coupled with Pore Water Pressure & Effective Stress
Dynamic	➤ Dynamic Analysis • 1-D Ground Response Analysis (FFA) • 2-D Equivalent Linear (SSI) Analysis • Time History (Linear) Analysis • Response Spectrum Analysis • Eigenvalue Analysis • Auto-Generation of Response Spectrums • Built-in Database of Worldwide Earthquake Records • Auto-Generation of Seismic Waves
Full Package	➤ Ground Stress and Tunnel Analysis • CAD Import Facilities • Construction Stage Analysis (FEM) • Nonlinear Static Analysis (FEM) • Advanced Material Models (Elastic / Mohr-Coulomb / Hoek-Brown / Duncan Chang) • Analysis Coupled with Seepage Analysis Results • Convenient Parametric Analysis through Change in K_0 • Lining Analysis Reflecting Non-Prismatic Tapered Sections • Report Generator ➤ Slope Stability Analysis • Limit Equilibrium Method (considering Construction Stage) • Strength Reduction Method (considering Construction Stage) • Stress Analysis Method (considering Construction Stage) • Simultaneous Analysis for Dry/Rainy Seasons and Automatic Failure Surface • Circular/Non-Circular Arc Sliding Surface and Automatic Failure Surface • LEM Analysis Reflecting the Intensity of Precipitation or Seepage Effects • LEM Analysis Reflecting the Increase in Strength due to 1D Consolidation • Practical Reinforcement Materials (Nail / Pile / Anchor / Strip / Strut) ➤ StereoNET/LEM Analysis and Design • StereoNet Analysis / LEM Analysis • Auto-search for Failure Zone of StereoNet • Slope Modeling Wizard • Check roughness & filling between joints • Automatic arrangement for Reinforcements • Export StereoNet Results to LEM Analysis • Report Generator ➤ Consolidation Analysis • Consolidation (FEM, considering Construction Stage) • 1-D Consolidation Theory Analysis • Advanced Soft Ground Material Models (Modified Cam Clay, Sekiguchi-Ohta) • Supporting Practice Oriented Drainage (PBD/SCP/GCP/SD/Pack Drain/CD/Fiber) • Parametric Analysis for Drainage Types and Spacing

- Parametric Analysis for Preloading Heights
- Checking Limit Embankment Heights Reflecting the Increase in Strength
- Calculation for an Immediate Settlement of Soft Sandy Soils
- **Pile Foundation Analysis**
 - Combined Lateral, Axial and Bending Loaded Piles (p-y Nonlinear Analysis)
 - Single and Two/Three-Dimensional Groups of Piles (p-y Nonlinear Analysis)
 - Settlement Checks for Various Foundation Types & Sizes
 - Analysis Reflecting Pile Head Conditions (Fixed/Hinged)
 - Preliminary Analysis Using the Ground and Structural Material DB and Section DB
- **Seepage Analysis**
 - Steady State Analysis (considering Construction Stage)
 - Transient Analysis (considering Construction Stage)
 - Fully Coupled Flow-Deformation Analysis
 - Mechanical Behavior of Partially Saturated Soils
 - Various Permeability Coefficient Functions and Function Property Curves
 - Reflection of Upward/Downward Seepage Forces
 - Slope Stability Analysis Coupled with Pore Water Pressure & Effective Stress
- **Dynamic Analysis**
 - 1-D Ground Response Analysis (FFA)
 - 2-D Equivalent Linear (SSI) Analysis
 - Time History (Linear) Analysis
 - Response Spectrum Analysis
 - Eigenvalue Analysis
 - Auto-Generation of Response Spectrums
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