

NEi Works™

New 2.1 Features

New Analysis Types:

Nonlinear Transient Response:

- Damping
 - Material
 - Structural
- Time stepping
 - Adaptive
 - Discrete
- Time dependent loads
 - Force
 - Moment
 - Pressure
 - Gravity
 - Rotational force
 - Displacement
 - Velocity
 - Acceleration

New Element Types:

PBARL:

- User dimensioned cross-section
 - Save
 - Load
- Defined profile selection
- Section offset
 - Centroid
 - Reference point
 - User defined
 - Individual element offset

PBEAML:

- User dimensioned cross-section
 - Save
 - Load
- Defined profile selection
- Section offset
 - Centroid
 - Reference point
 - Shear center
 - User defined
 - Individual element offset
- Tapered Beam

New Load Types:

From Output:

- Temperature loads

Variable Loading:

- Uses 3D interpolation surface
 - All applicable load types supported
 - Function dependence capable

New Post-Processing Features:

Performance Increase for Post-Processing:

- Shorter result load times
- Short wait times between result selection

XY Plot Enhancements:

- Logarithmic axis
- Hover over data points

Usability Enhancements:

- 3D cross-section view of shell elements
- 3D cross-section view of beam and bar elements using cross-section definition
- 1D element direction visualization
- Failure theories for isotropic material
 - Von Mises
 - Max Shear Stress
- Combined shell and beam/bar meshing
- Added automatic bolt creation
- Simplification of feature tree
 - Add / remove extra items in the tree that are not used
- New access to all advanced nonlinear analysis settings and parameters
- Support for SolidWorks 2010

Optimization:

New Optimization Objective:

- Eigenvalue for buckling solutions

NEi Software, Inc. is committed to the success of our customers. Detailed documentation, customized on-site training, and comprehensive technical support ensures that you will see immediate return on your investment.

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