



Webinar:
**Introduction to the
Femap PostProcessing
Toolbox**

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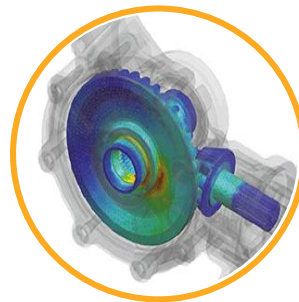
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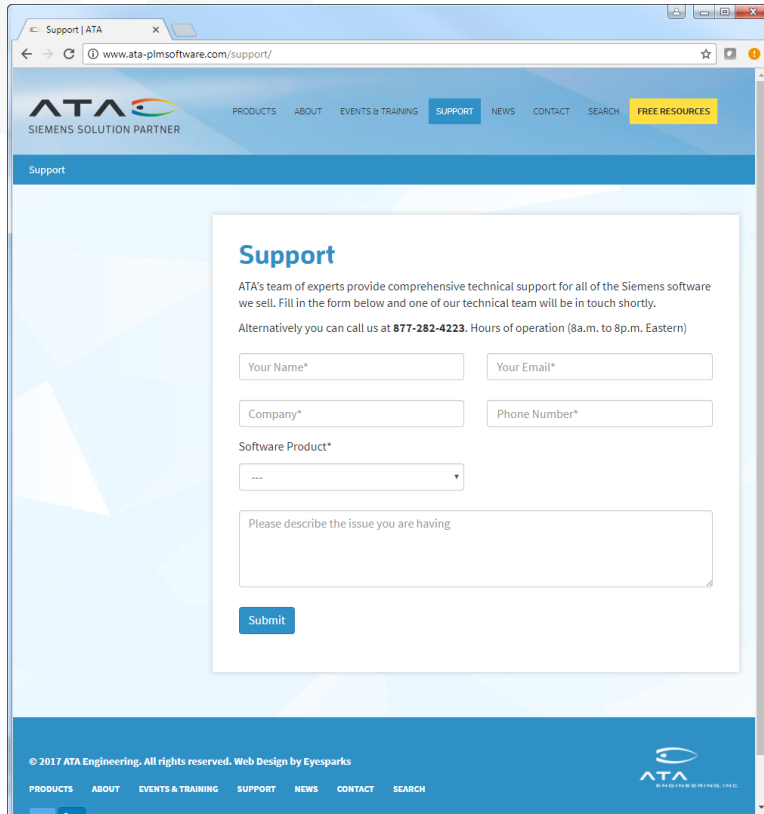
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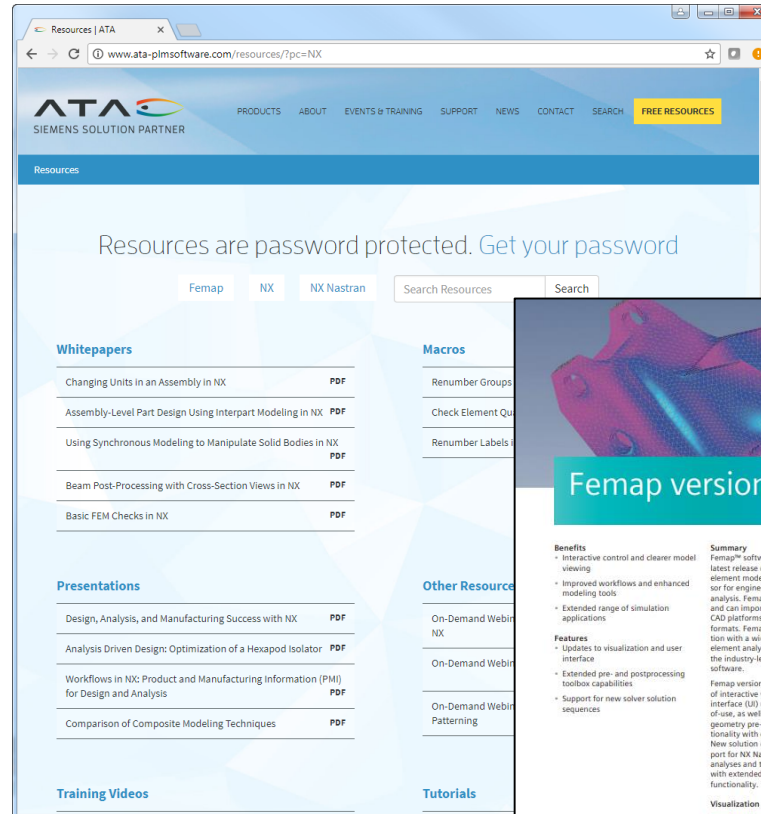


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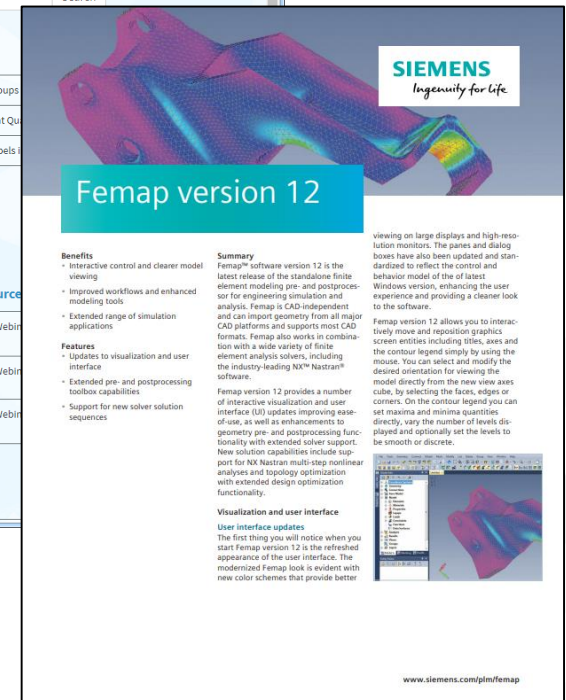
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The screenshot shows the 'Support' page on the ATA website. The header includes the ATA logo and navigation links for PRODUCTS, ABOUT, EVENTS & TRAINING, SUPPORT, NEWS, CONTACT, SEARCH, and FREE RESOURCES. The main content area features a 'Support' heading and a paragraph stating that ATA's team of experts provides comprehensive technical support for all Siemens software. Below this is a contact form with fields for 'Your Name*', 'Your Email*', 'Company*', and 'Phone Number*'. A 'Software Product*' dropdown menu is set to '---'. A text area prompts the user to 'Please describe the issue you are having'. A blue 'Submit' button is located at the bottom of the form. The footer contains the copyright notice '© 2017 ATA Engineering, All rights reserved. Web Design by Eyesparks' and the ATA logo.



The screenshot shows the 'Resources' page on the ATA website. The header is identical to the Support page. The main content area features a heading 'Resources are password protected. Get your password' and a search bar with filters for 'Femap', 'NX', and 'NX Nastran'. Below the search bar are four columns of resource links, each with a PDF icon: 'Whitepapers' (Changing Units in an Assembly in NX, Assembly-Level Part Design Using Interpart Modeling in NX, Using Synchronous Modeling to Manipulate Solid Bodies in NX, Beam Post-Processing with Cross-Section Views in NX, Basic FEM Checks in NX), 'Presentations' (Design, Analysis, and Manufacturing Success with NX, Analysis Driven Design: Optimization of a Hexapod Isolator, Workflows in NX: Product and Manufacturing Information (PMI) for Design and Analysis, Comparison of Composite Modeling Techniques), 'Macros' (Renumber Groups, Check Element Qu, Renumber Labels), 'Other Resource' (On-Demand Webinar NX, On-Demand Webinar, On-Demand Webinar Patterning), and 'Training Videos' (Tutorials).



The graphic is a promotional page for Femap version 12. It features a large, colorful 3D model of a mechanical part with a stress analysis overlay. The title 'Femap version 12' is prominently displayed in a blue box. Below the title, there are sections for 'Benefits', 'Features', 'Summary', and 'Visualization and user interface'. The 'Benefits' section highlights interactive control and clearer model viewing. The 'Features' section lists updates to visualization and user interface. The 'Summary' section provides an overview of the software's capabilities. The 'Visualization and user interface' section describes the updated look and feel. A small inset image shows the Femap software interface. The Siemens logo and tagline 'Ingenuity for Life' are in the top right corner. The URL 'www.siemens.com/plm/femap' is at the bottom right.

Benefits

- Interactive control and clearer model viewing
- Improved workflows and enhanced modeling tools
- Extended range of simulation applications

Features

- Updates to visualization and user interface
- Extended pre- and postprocessing toolbox capabilities
- Support for new solver solution sequences

Summary

Femap® software version 12 is the latest release of the standalone finite element modeling pre- and postprocessor for engineering simulation and analysis. Femap is CAD-independent and can import geometry from all major CAD platforms and supports most CAD formats. Femap also works in combination with a wide variety of finite element analysis solvers, including the industry-leading NX™ Nastran® software.

Femap version 12 provides a number of interactive visualization and user interface (UI) updates improving ease-of-use, as well as enhancements to geometry pre- and postprocessing functionality with extended solver support. New solution capabilities include support for NX Nastran multi-step nonlinear analyses and topology optimization with extended design optimization functionality.

Visualization and user interface

User Interface updates

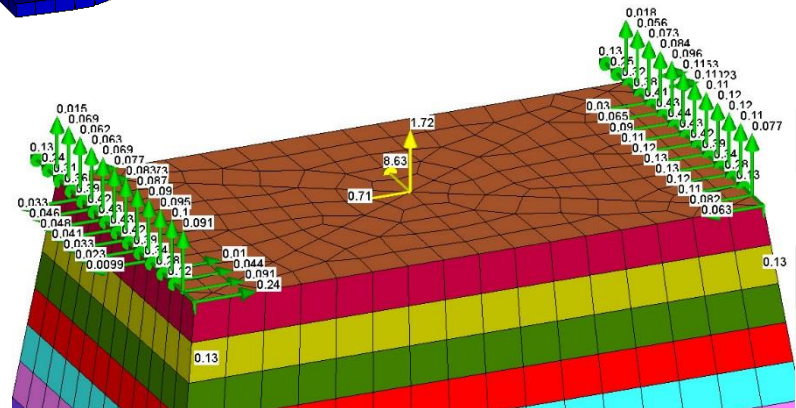
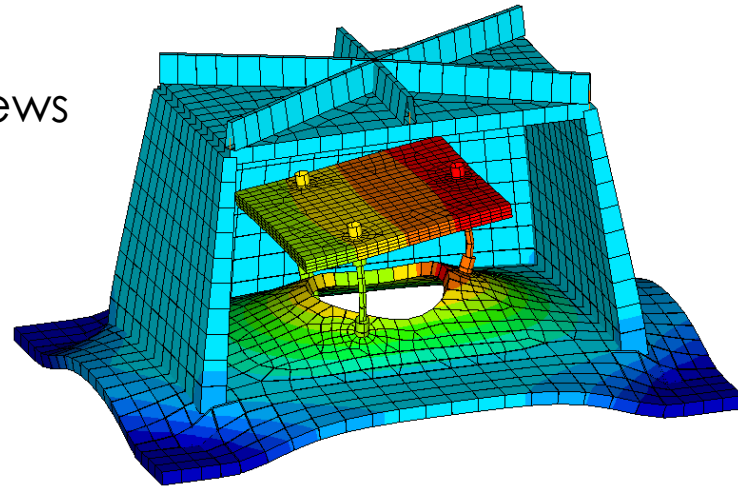
The first thing you will notice when you start Femap version 12 is the refreshed appearance of the user interface. The modernized Femap look is evident with new color schemes that provide better viewing on large displays and high-resolution monitors. The panes and dialog boxes have also been updated and standardized to reflect the control and behavior model of the of latest Windows version, enhancing the user experience and providing a cleaner look to the software.

Femap version 12 allows you to interactively move and reposition graphics screen entities including titles, axes and the contour legend simply by using the mouse. You can select and modify the desired orientation for viewing the model directly from the new view axes cube. By selecting the faces, edges or corners. On the contour legend you can set maxima and minima quantities directly, vary the number of levels displayed and optionally set the levels to be smooth or discrete.

www.siemens.com/plm/femap

Demo Outline

- What is the PostProcessing Toolbox?
- Highlight postprocessing commands and views options within each of the three “tools” in the PostProcessing Toolbox:
 - **1) Deform Tool**
 - Deform/Undeformed Views
 - Animations
 - **2) Contour Tool**
 - Contour Settings
 - Section Cuts
 - Contour Arrow Displays
 - Dynamic Criteria Plotting
 - **3) Freebody Tool**
 - Creating Freebody Displays
 - Interface Loads



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