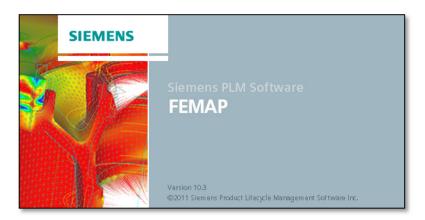




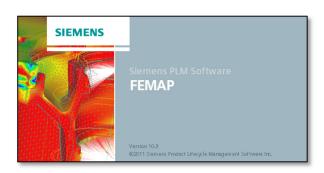
Femap v10.3.1 and NX Nastran v8.1 Update Seminar on Visibility, Hexing and API





Seminar Outline

- What is Femapv10.3.1
- Visibility | Blanking Enhancements
- Hexing Complicated Geometry
- Useful API's
 - PSD RMS von Mises Stresses
 - Blank All (mimics Patran's "Erase Plot All" command
 - Applying multiple loads from Excel Spreadsheet

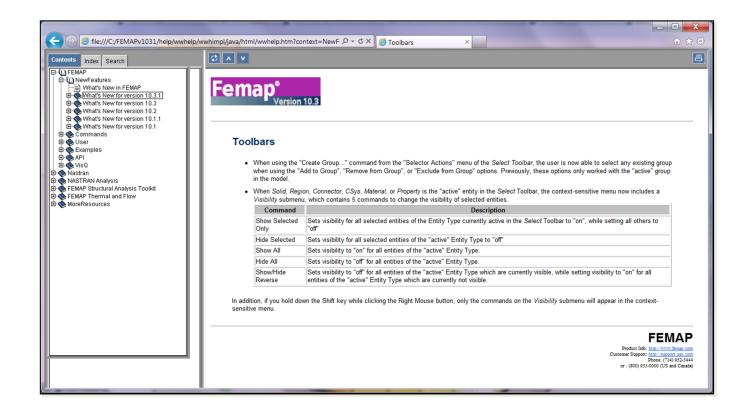




Femap v10.3.1 and NX Nastran v8.1 Update on Visibility, Hexing and API

Femap v10.3.1

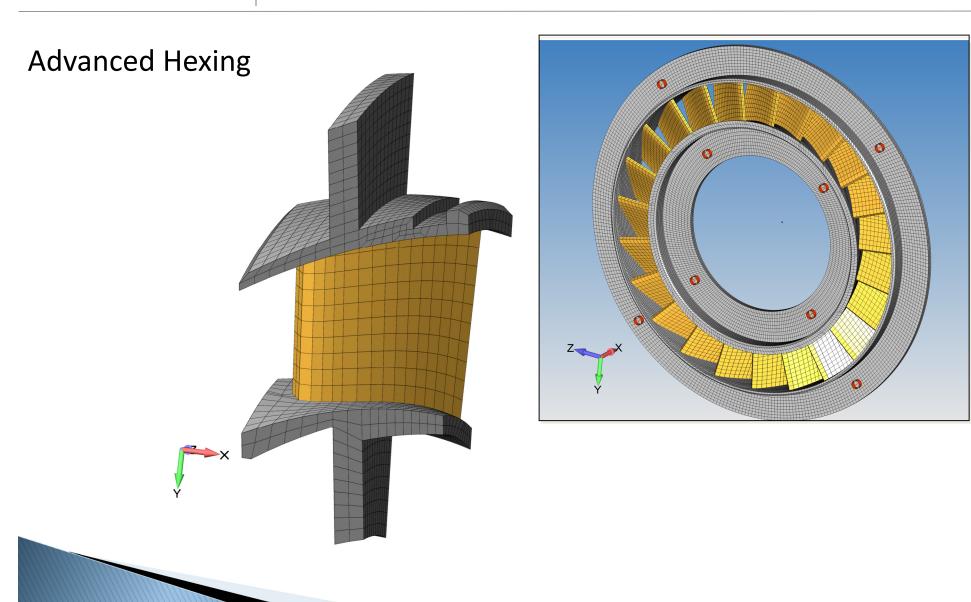
It is surprising what you can learn by reading the documentation





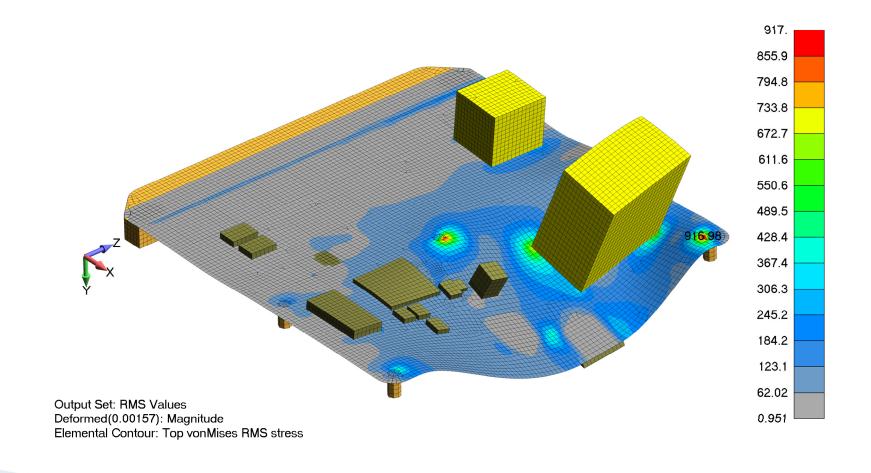
2/28/2012

Femap v10.3.1 and NX Nastran v8.1 Update on Visibility, Hexing and API



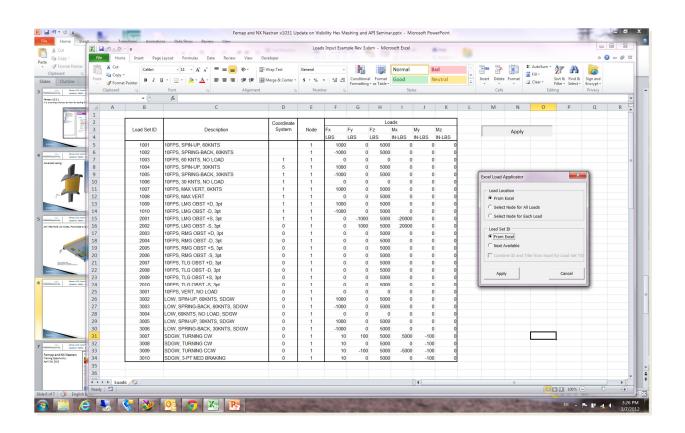


API: PSD RMS von Mises, Plot Erase All and Multiple Load Sets





Femap v10.3.1 and NX Nastran v8.1 Update on Visibility, Hexing and API





Femap and NX Nastran Training Opportunity: April 2-6, 2012



Femap and NX Nastran Training: Foundation | Advanced | Customization



When: April 2-6, 2012

Where: Portland, OR (exact location TBD)
Cost: \$475/day. Students may attend either the
Introduction or the Advanced Sections or just the
last day of Customization/Automation training.

What's Included: Course manual with DVD.
Two lunches and two social events are provided to
encourage class interaction with fellow users.

Registration:

Early registration is encouraged since space is limited to 20 students and it is expected that the classes will fill quite quickly.

To register please send email to: <u>Training@PredictiveEngineering.com</u> Attn: George Laird, Ph.D., P.E.

About Predictive Engineering:

Based in Portland, Oregon, Predictive has over 15 years experience with Femap and Nastran and has developed an international reputation as the "go to company" for Femap training and services. References can be obtained at our website: www.PredictiveEngineering.com.



Welcome Femap Colleague,

This week-long course will take the new user from ground floor through FEA best practices to advanced subjects dealing with manifold and non-manifold surface modeling, detailed plate meshing and tet versus hex meshing. The final day will finish with a focus on customization and automation using Excel and Femap's own API interface. The course will be fast paced and follow a workshop format with theory, practice and Q&A sessions.

Course Outline

Foundation of FEA Modeling with Femap + NX Nastran (Two Days)

- I. FEA theoretical background w.r.t beam, isoparametric and special elements
- II. Tour of Femap interface: Tips & Tricks, Preferences, Panes, Toolboxes and Help
- III. Femap workflow for Beam, Plate and Solid (BPS)
- IV. Static stress analysis and results interpretation of
- V. Introduction to plate and solid modeling (Mesh
- VI. Introduction to Assembly Modeling: Glued, Contact and Rigids

Advanced Femap + NX Nastran (Two Days)

- Surface modeling using manifold and nonmanifold geometries
- II. Advanced surface preparation for high-accuracy plate modeling
- III. Meshing toolbox tips and tricks with Jacobian Optimization
- IV. Building efficient assemblies via efficient solid modeling (tet and hex elements) and linear contact
- Introduction to linear dynamics (modal analysis tips and tricks)
- VI. Non-linear analysis: geometric versus material non-linearity and best practices

Customization & Automation of Femap (One Day)

- I. Automation of results processing via Excel
- II. Introduction to Femap's macro capability
- III. Introduction to Femap's API via Custom Tools

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