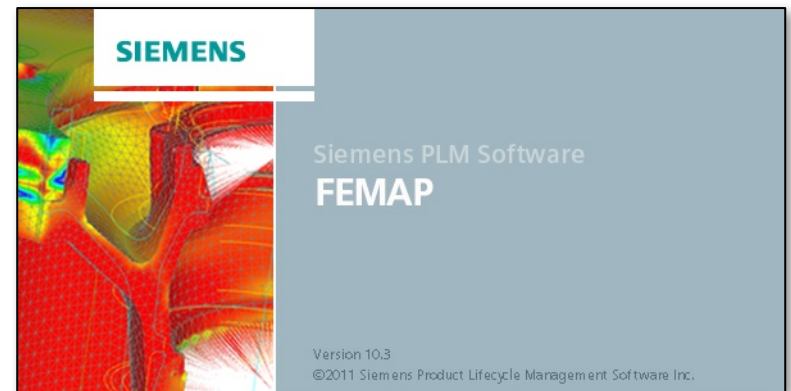


FINITE ELEMENT ANALYSIS



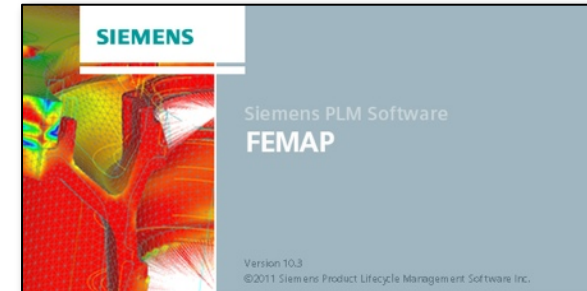
Predictive Engineering

Femap v10.3 and NX Nastran v8.0mp1 Update Seminar



Major Enhancements

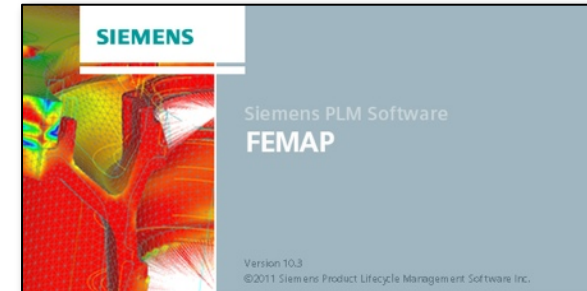
- Geometry Preparation
- Free-Body-Diagram
- Aeroelasticity



May not seem like a lot but the Geometry Preparation alone moves Femap to the forefront of advanced solid meshing capabilities while the FBD tool represents a complete major rewrite through the database with hooks into the Data Table and other tools. Lastly, Aeroelasticity is a major capability and far from simple to work into the interface.

Nice Stuff

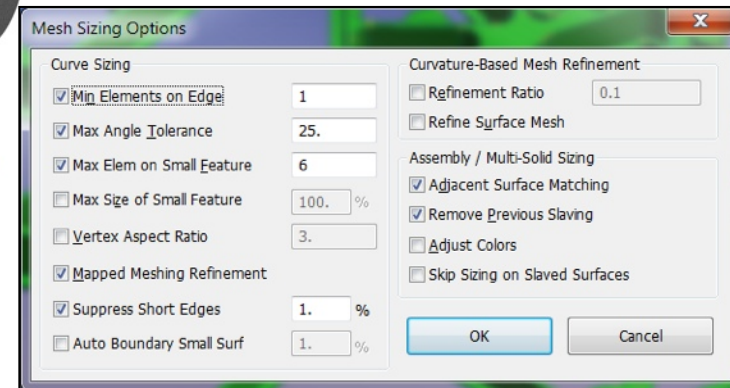
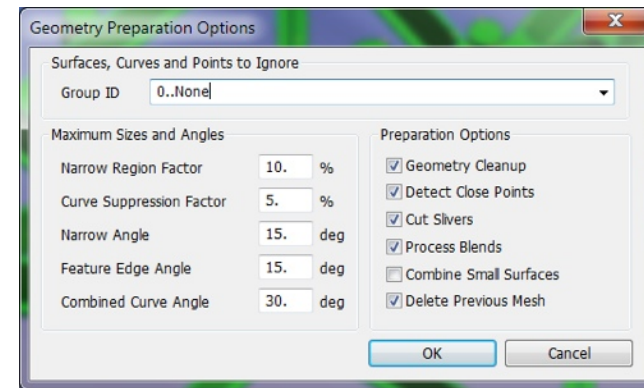
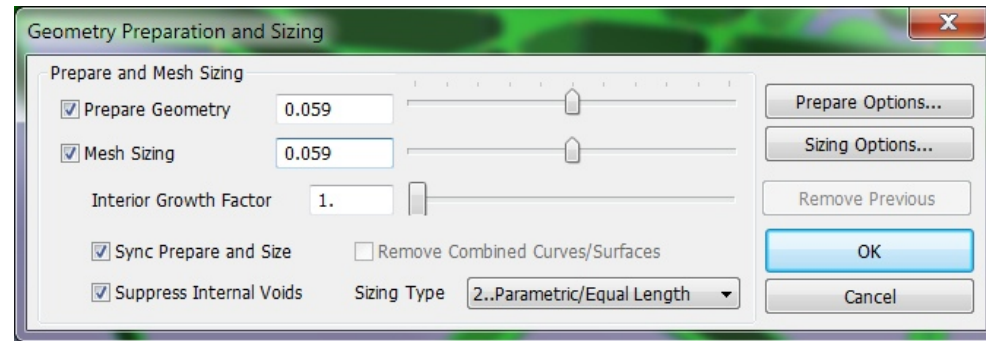
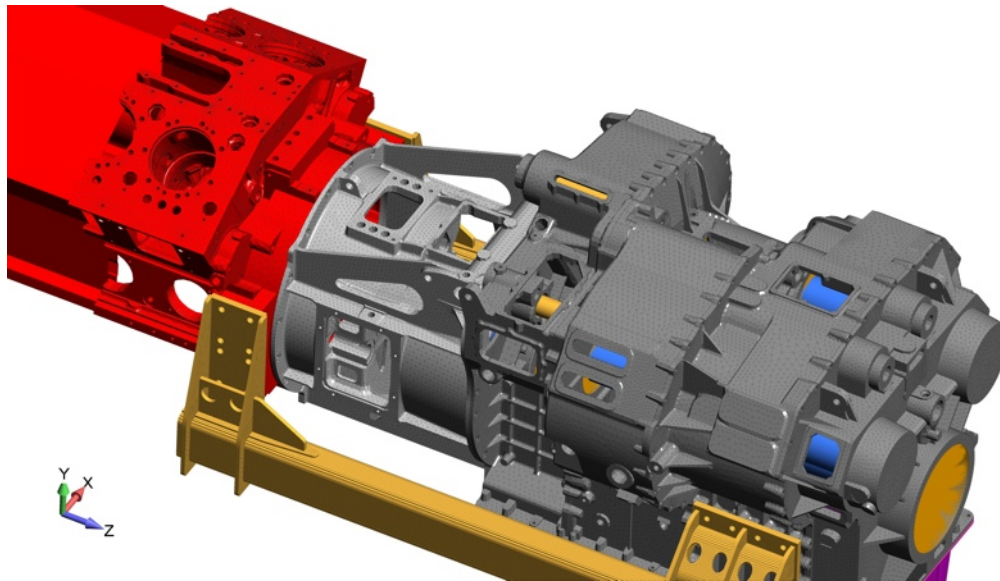
- User Defined Tools will not transfer between version
- Ctrl+M (think Ctrl+D) while in a dialog box field asking for a length will display the Select Curve to Measure dialog box.
- Default spring element is CBUSH.
- NX Nastran Glue Traction



This is just our picks. For all the enhancements see Femap | Help | What's New.

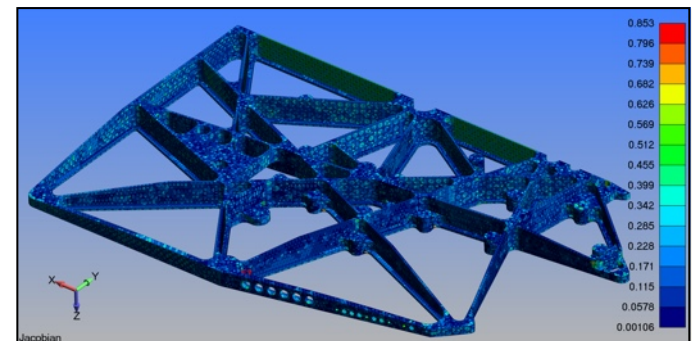
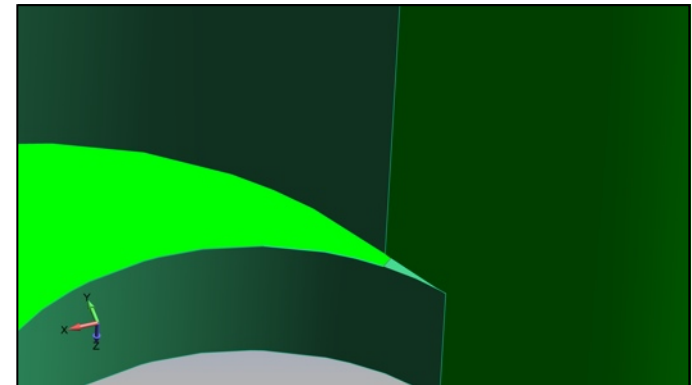
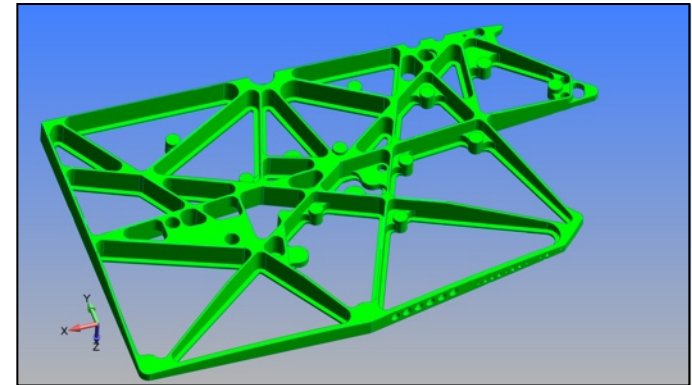
Mesh | Geometry Preparation

- Two Steps: Prepare and Size
- Not the “Default”
- It is nothing new.....
- Everything can be Removed
- Can save hours and hours



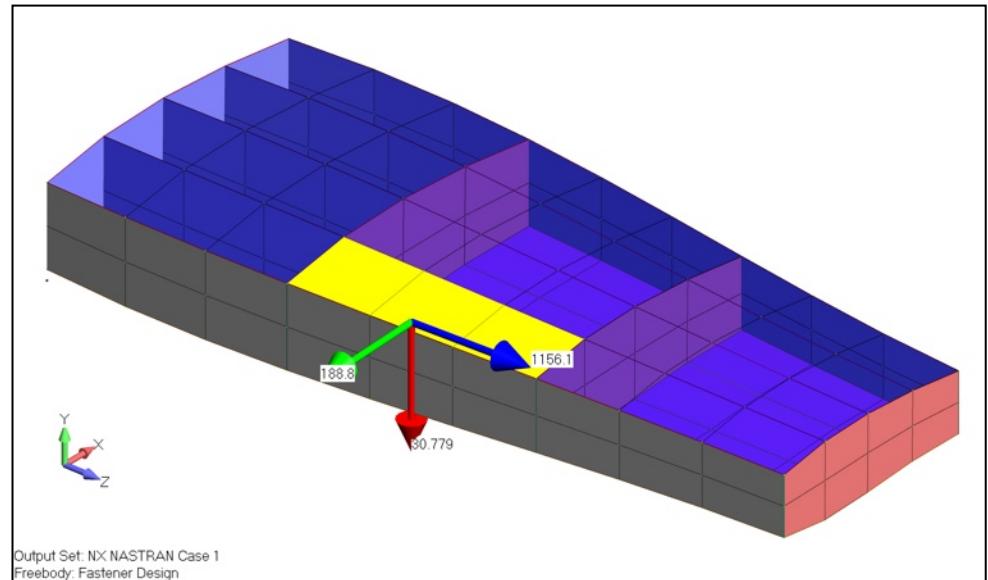
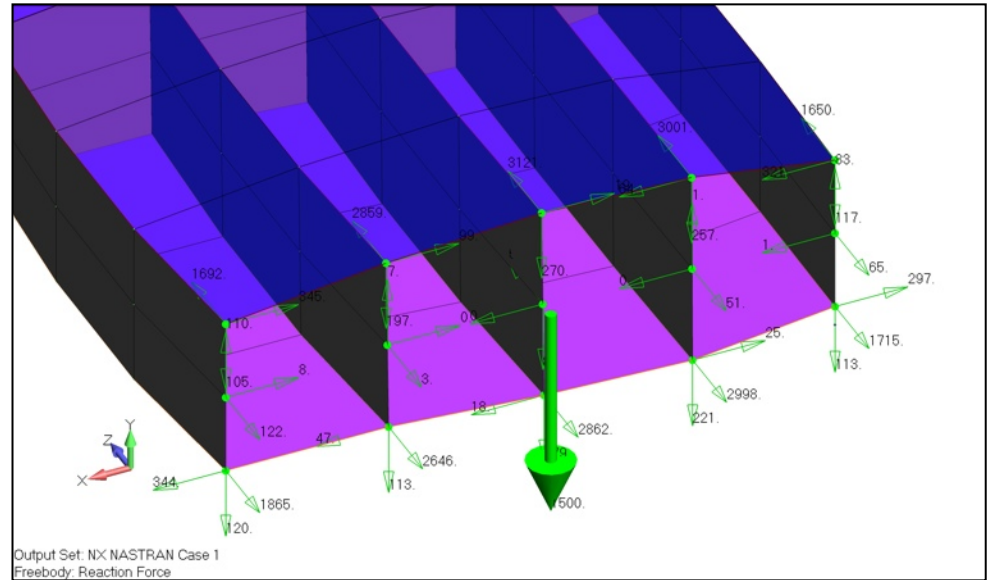
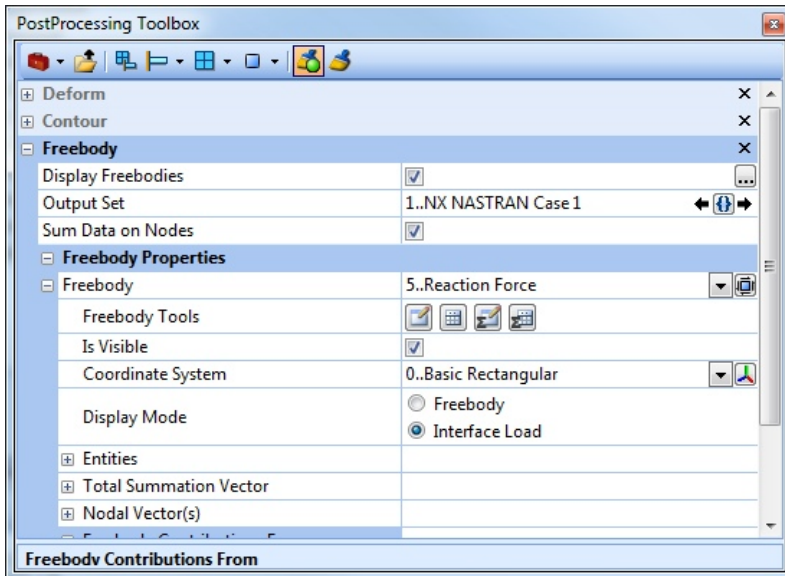
Mesh | Geometry Preparation

- Some geometries will not benefit
 - Don't have small surfaces
 - Don't have short edges
 - Don't have vertex points
- Geometry Preparation is an intelligent algorithm
- One can use GP as a starting point or not
- In combination with Model Data Contour



Free-Body-Diagram

- Completely new capability
- User control over all details
- Better Display, Ability to Reuse
- Data Table Export



Glued Connections

- Glued Connections are a bit under-appreciated
- With appropriate expectations.....
- Checking the connection with Glue Force

