



Technical Seminar: Stress Visualization and Validation

Topics:

- Understanding how Femap manages the View Window
- Stress visualization (Post Processing):
 - Solid Elements – nodal versus centroid stresses
 - Plate Elements – top/bottom and nodal averaging
 - Beam Elements – Max Combined = von Mises
- Validation of Stress Results: If it looks good it is good.
- Using the Free-Body-Diagram (FBD)

A Brief Q&A Period

February 2011



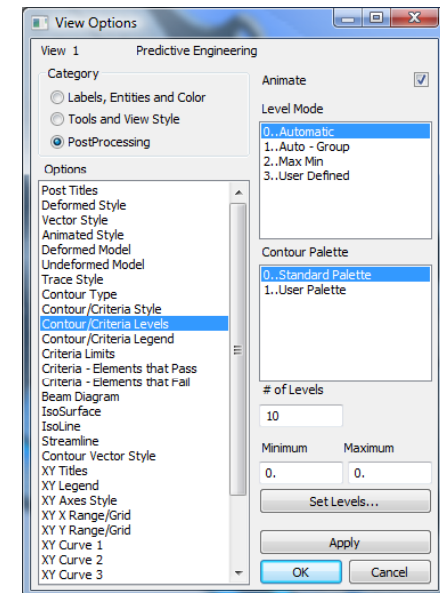
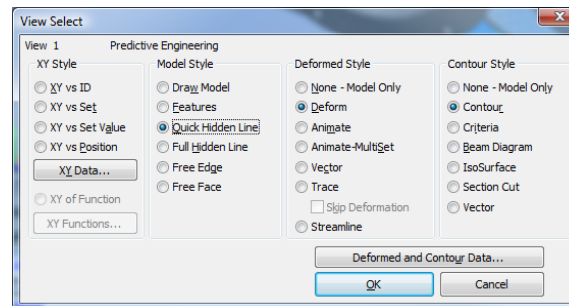
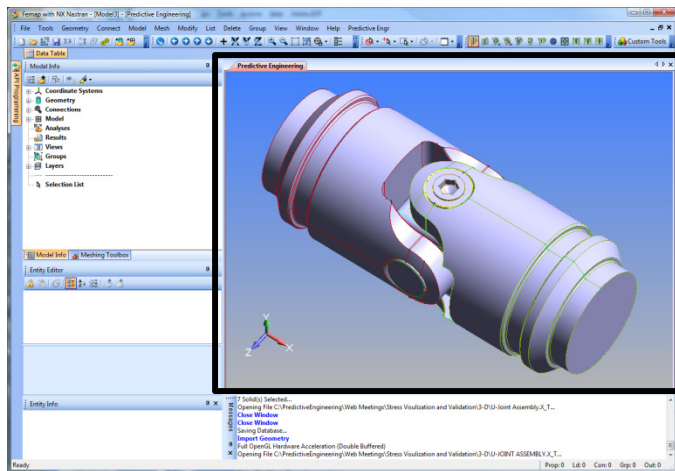
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“Whenever you see a stress contour plot, just assume that it is wrong,” says Mark Sherman, head of the Femap Development Team for Siemens PLM Software Solutions. Although Sherman’s comment sounds a bit dramatic, it’s par for the course in computer modeling, where a common saying is “garbage in, gospel out (GIGO).” The questions that these comments raise are simple to pose but somewhat vexing to answer even for the specialists.



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Navigating Femap's View Window, View Select and View Options



- The View Window is a database
- All View Select and View Options can be saved within this mini-database

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