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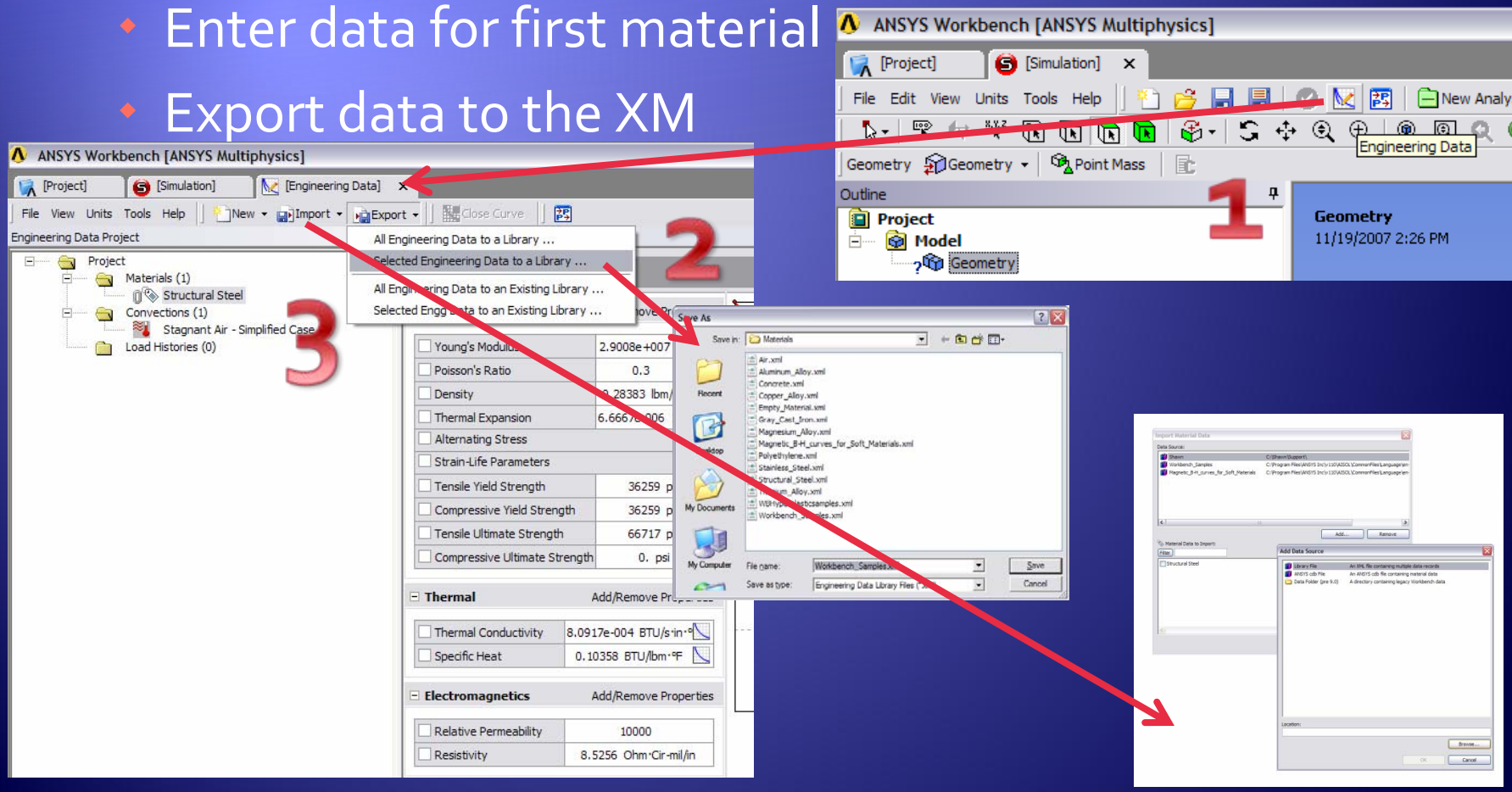
ANSYS WORKBENCH 11.0 TIPS AND TRICKS

Engineering Data Library

- Creating the XML Material Data File
  - Select the engineering data icon
  - Enter data for first material
  - Export data to the XM

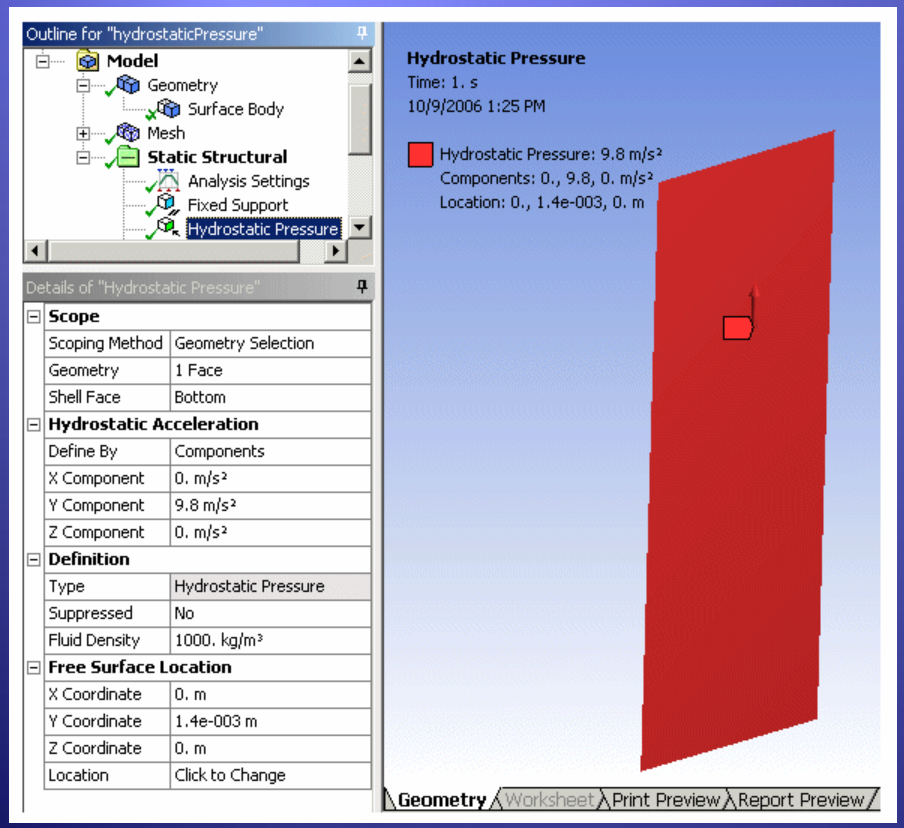


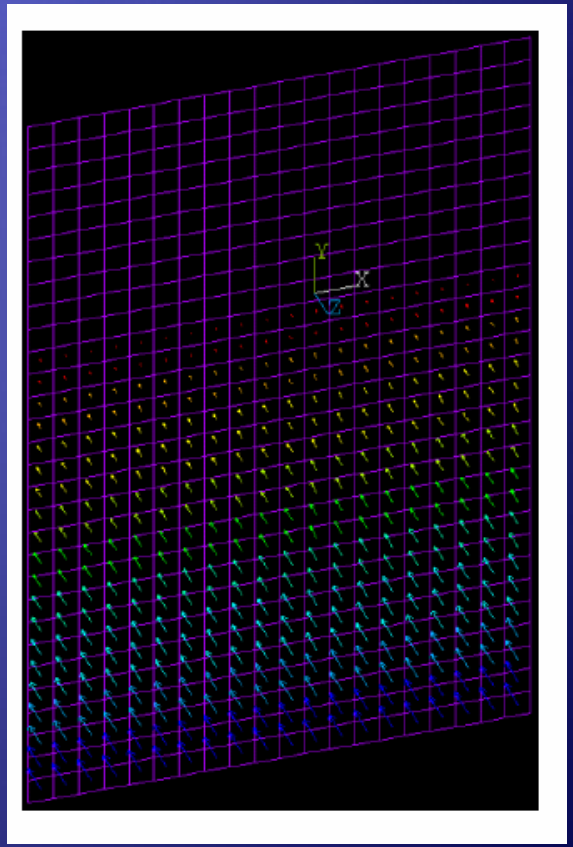
Common Workbench Files

- Workbench project database file = .wbdb
- DesignModeler database file = .agdb
- CFX-Mesh database file = .cmdb
- Simulation database file = .dsdb
- Meshing database file = .cmdb
- Engineering Data database file = .eddb
- FE Modeler database file = .fedb
- ANSYS AUTODYN database file = .ad
- DesignXplorer database file = .dxdb
- BladeGen database file = .bgd
- Advanced Meshing database file = .prj

Hydrostatic Pressure

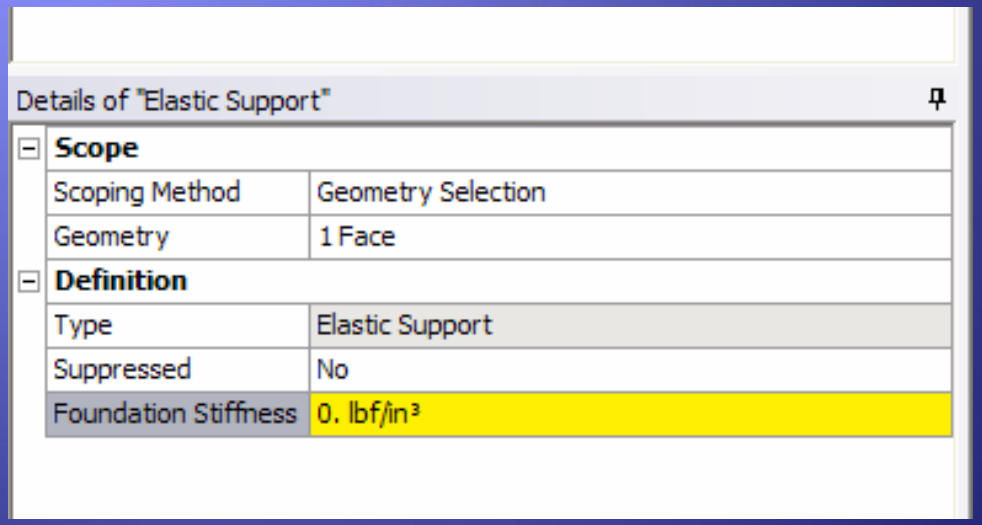
- A hydrostatic pressure load simulates pressure that occurs due to fluid weight.





Elastic Support

- Allows one or more faces or edges to move or deform according to a spring behavior.

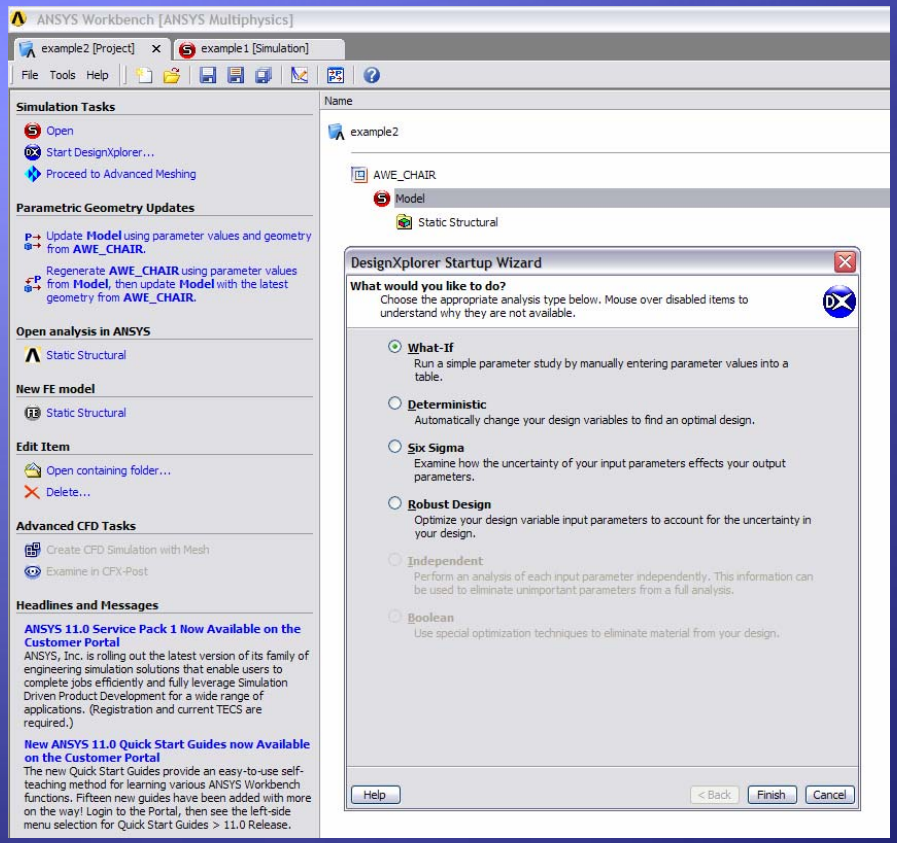


Details of "Elastic Support"

Scope	
Scoping Method	Geometry Selection
Geometry	1 Face
Definition	
Type	Elastic Support
Suppressed	No
Foundation Stiffness	0. lbf/in³

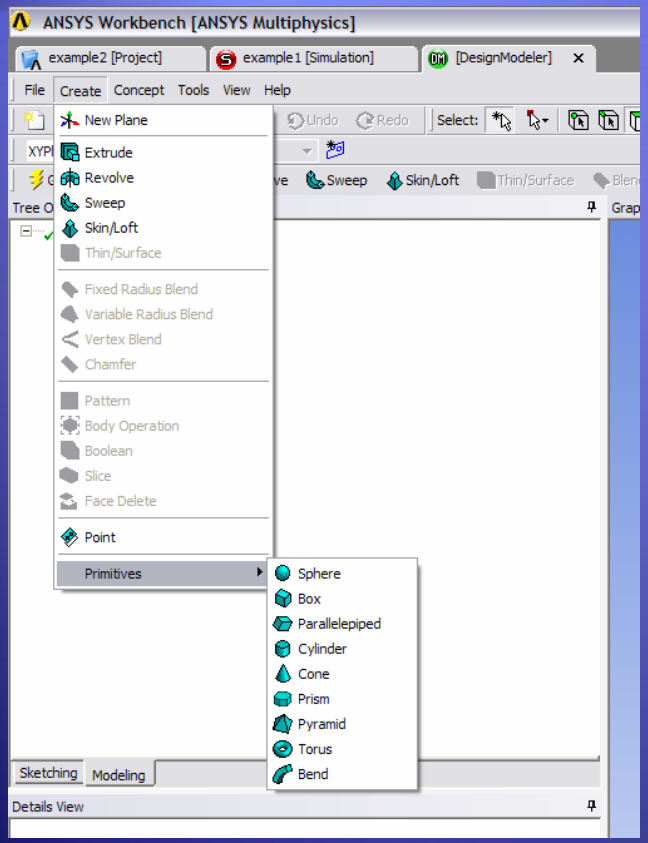
DesignXplorer – What-If

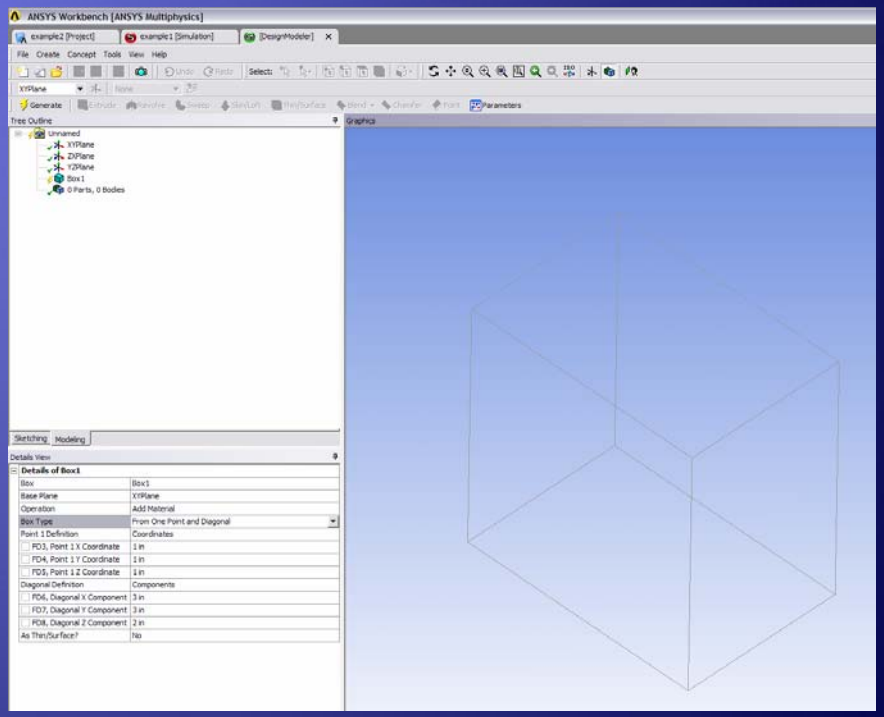
- Run a simple parameter study.



DesignModeler Primitives

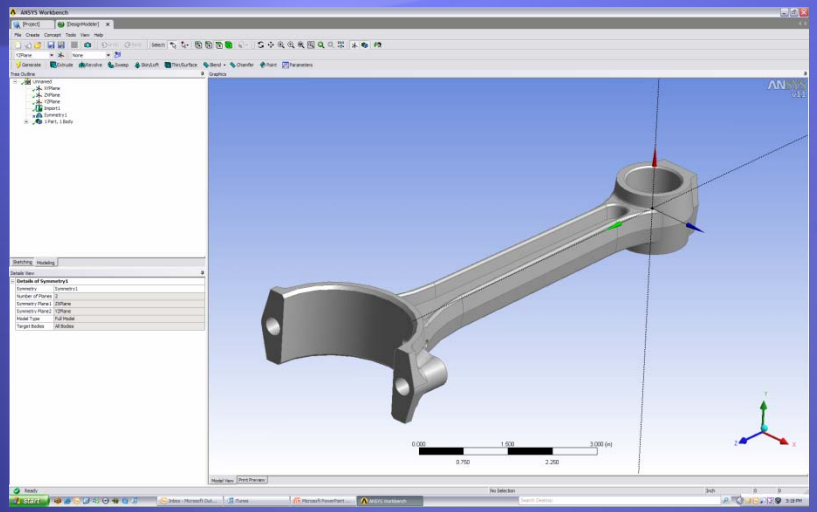
- I can't get enough of those PREP7 primitives!

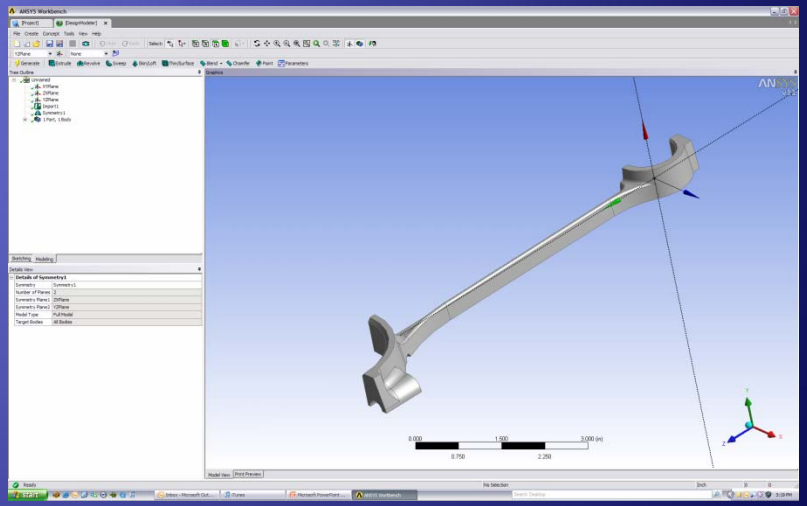


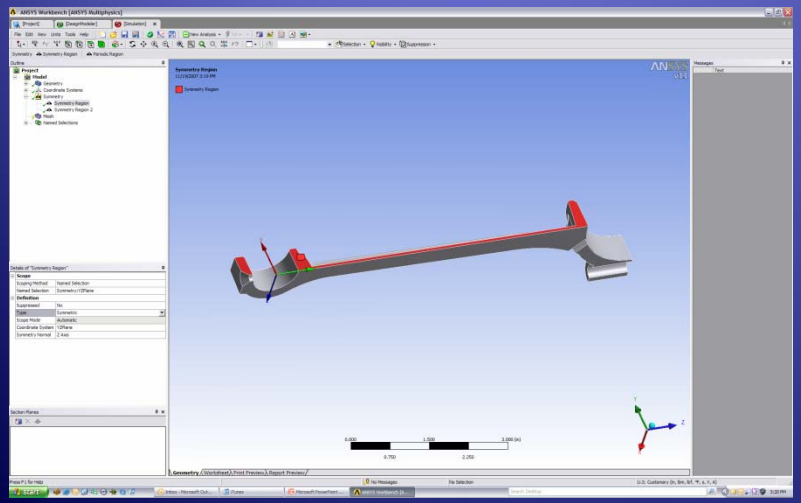


Symmetry Feature

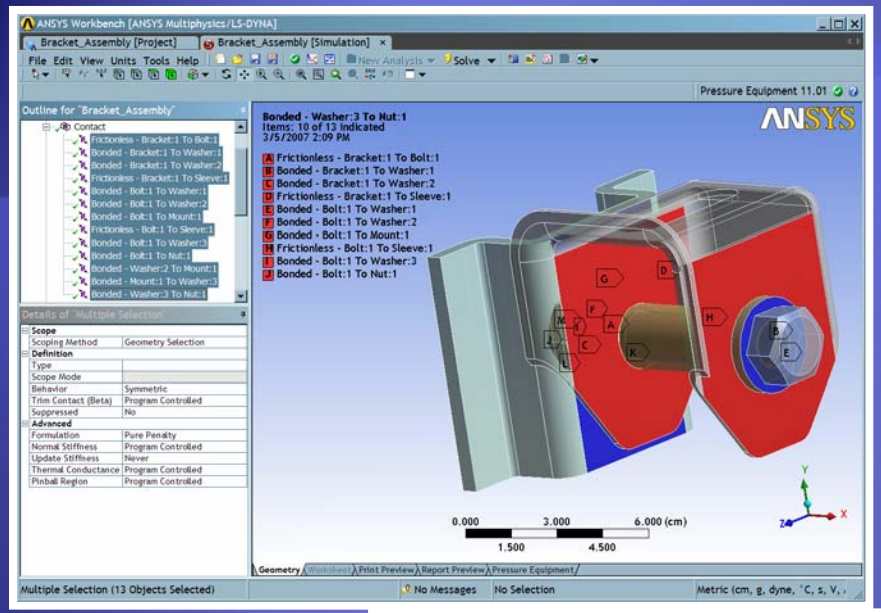
- Automated Symmetry Creation and Management

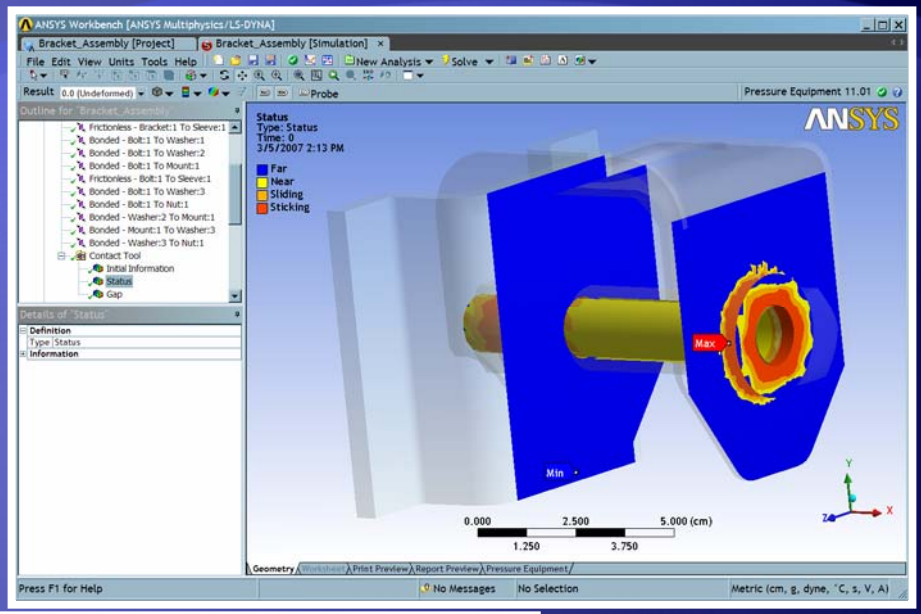


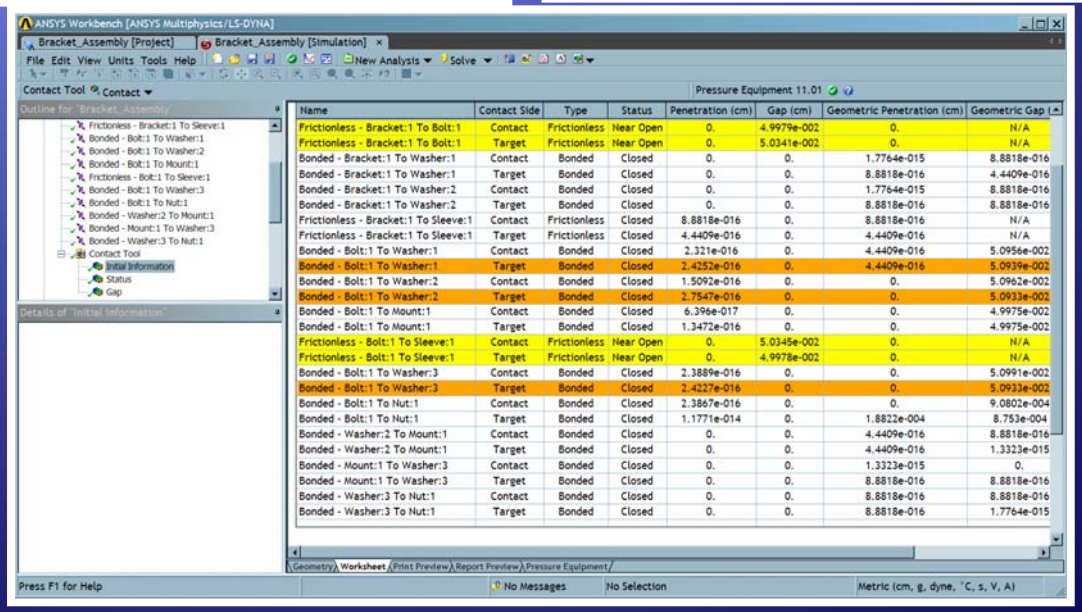




Contact Detection / Management

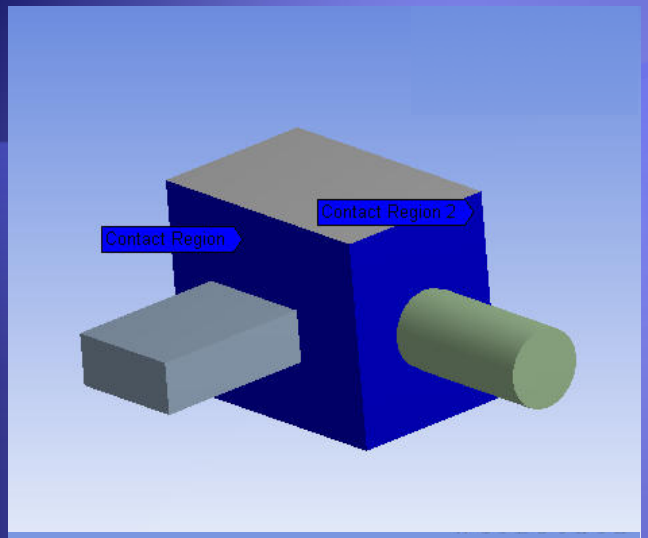


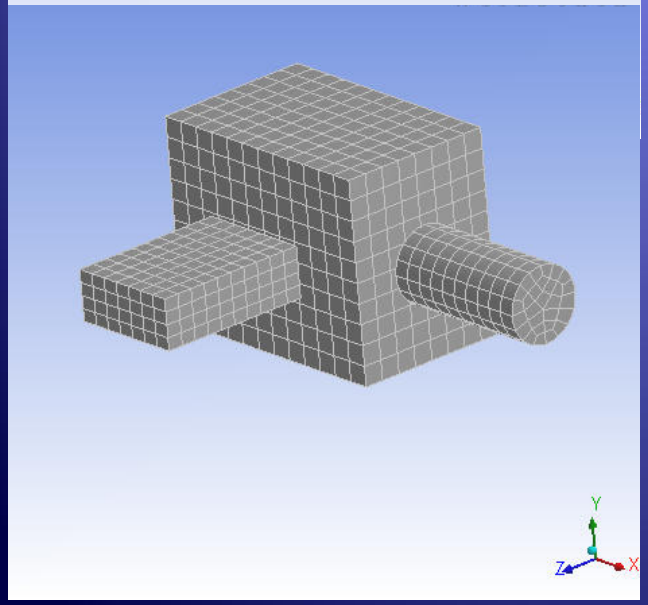




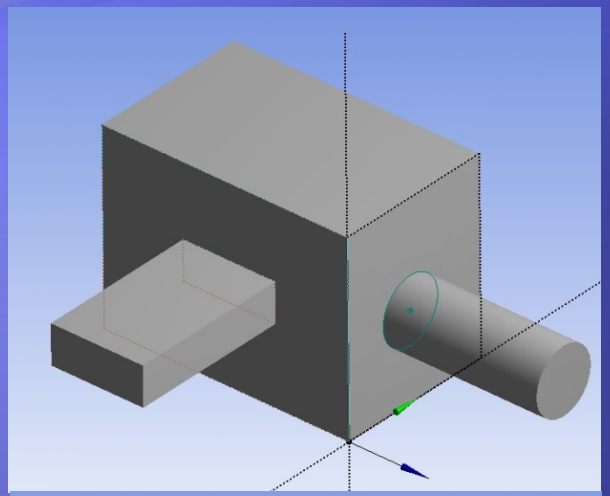
Multi-Body Parts (glue)

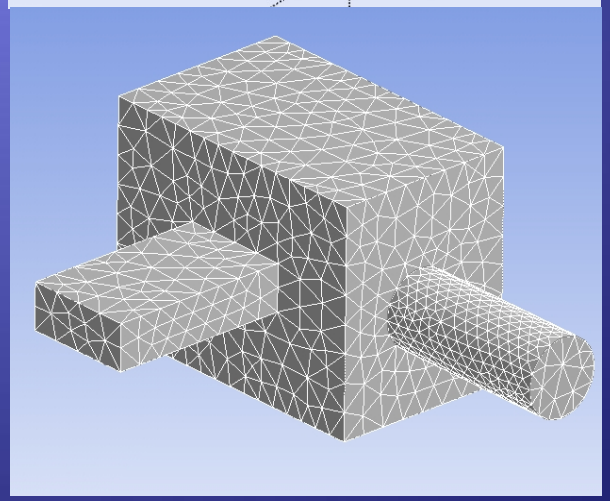
Three Bodies



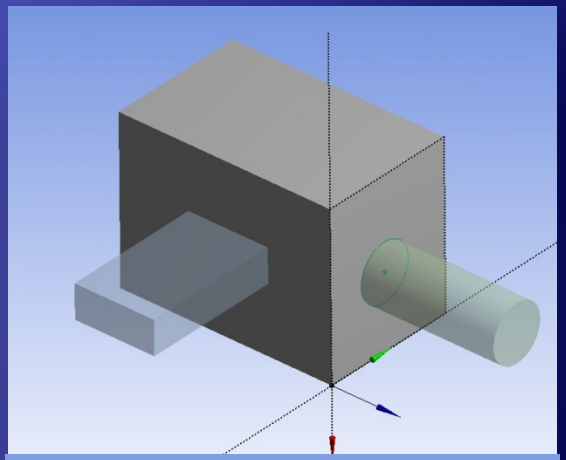


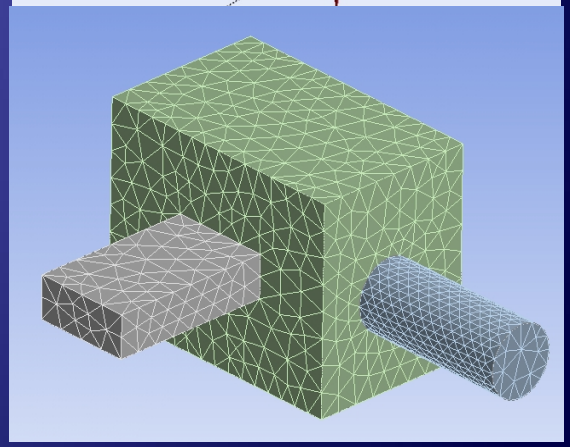
One Body

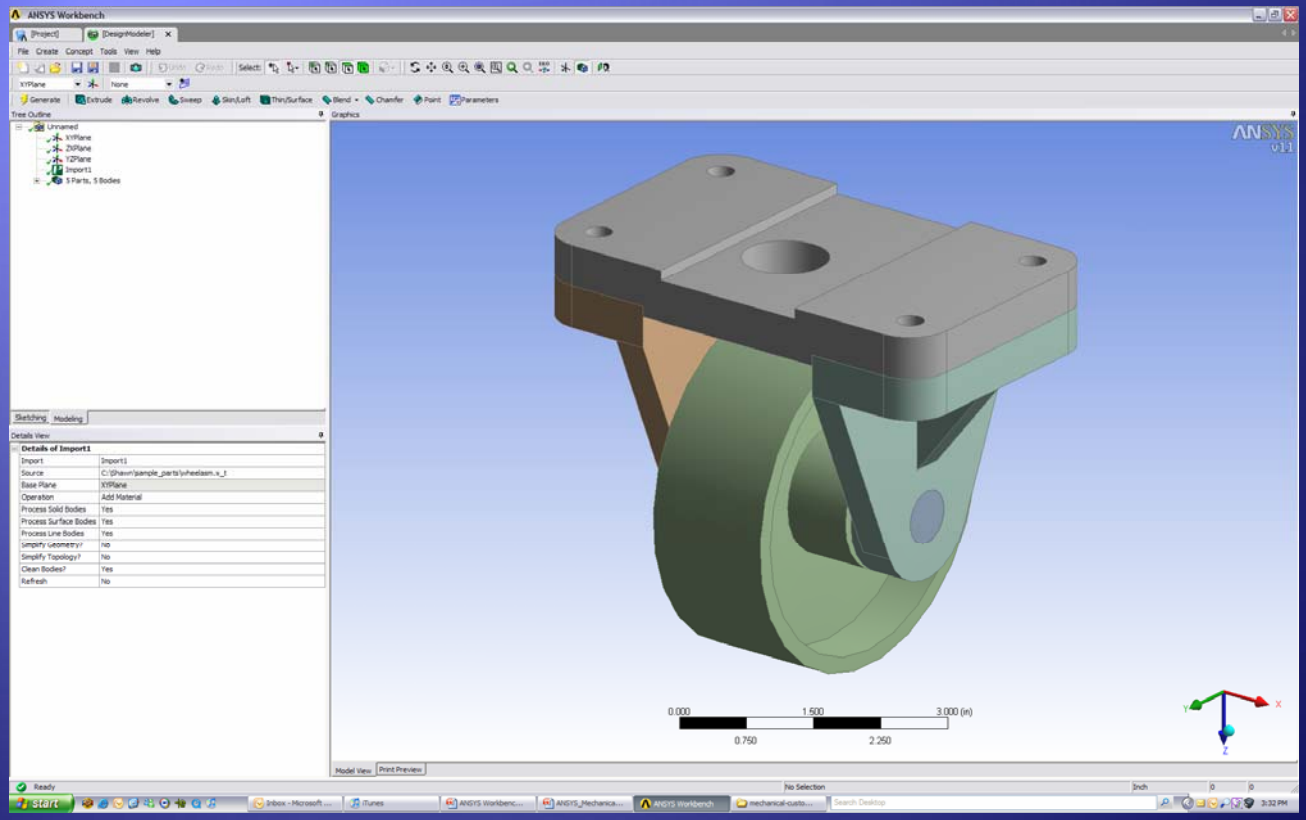




Multi-Body





Multi-Body Part and Brick Elements

Demo