ME/AE 5212

Computer Project Using ANSYS

Hint for Pressure Vessel Problem:

1. Use 8-node quadratic <u>axisymmetric</u> element (Solid Quad 8 node 183).
2. The element must be defined in the X-Y plane of the coordinate system. Y-axis must be the axis of symmetry for axisymmetric analyses. An axisymmetric structure should be modeled in the +X quadrants.
3. Use free triangular meshing scheme, refine the corner mesh if necessary.
4. Use half axisymmetric modeling, apply the following boundary condition and load.