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Name the boundary conditioned “Fixed” and select “Displacement/Rotation” for the type. b. Select the bottom edge of the geometry c. Set U1 and U2 to zero (full restraint) d. Select the vertical left edge for symmetry BC. e. Set U1 to zero to restrain the radial displacement. ME 455/555 Intro to Finite Element Analysis Fall 2016 Abaqus/CAE Axisymmetric tutorial.

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In the model tree double click on the “Parts” node (or right click on “parts” and select Create) 3. In the Create Part dialog box (shown above) name the part and select a. Axisymmetric b. Deformable c. Shell d. Approximate size = 0.2 4. Create the geometry shown below (not discussed here) ME 455/555 Intro to Finite Element Analysis Winter ‘10 Abaqus/CAE Axisymmetric tut ...

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Name the load “Pressure” and select “Pressure” as the type b. Select surface named “Pressure” c. For the magnitude enter the applied pressure in F/L2 ? . ©2012 Hormoz Zareh 8 Portland State University, Mechanical Engineering ME 455/555 Intro to Finite Element Analysis Fall 2012 Abaqus/CAE Axisymmetric tutorial 16.

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Generalized axisymmetric elements with twist have an additional degree of freedom, 5, corresponding to the twist angle ? (in radians). Abaqus does not automatically apply any boundary conditions to nodes located along the symmetry axis. You must apply radial or symmetry boundary conditions on these nodes if desired.

~~Axisymmetric solid element library~~

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The correspondence between axisymmetric and three dimensional element types can be found in the respectful section in the Abaqus documentation. Flange Example For our example, we will be using a 3d sector model (supported geometry feature no 2) representing a flange segment, comprising of two flange parts and an M48 bolt connecting them.

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Abaqus/CAE Heat Transfer Tutorial Problem Description The thin “L?shaped” steel part shown above (lengths in meters) is exposed to a temperature of 20 oC on the two surfaces of the inner corner, and 120 oC on the two surfaces of the outer corner. A heat flux of 10 W/m2 is applied to the top surface. Treat the remaining surfaces as insulated. ME 455/555 Intro to Finite Element Analysis ...

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