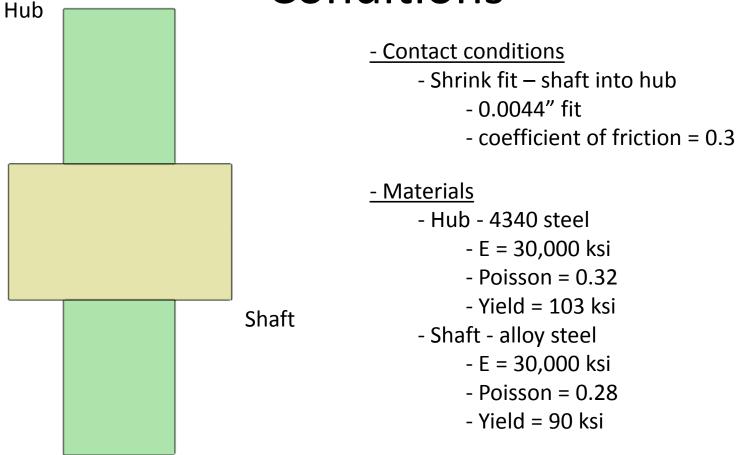
Shrink Fit Contact Set – Initial Conditions



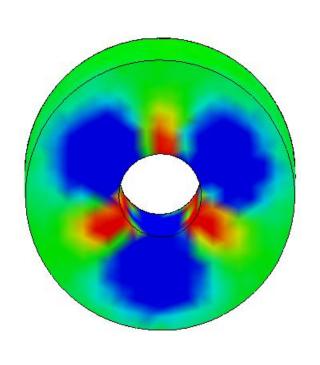
- Constraints

- Fixed translation and rotation on hub outer bore

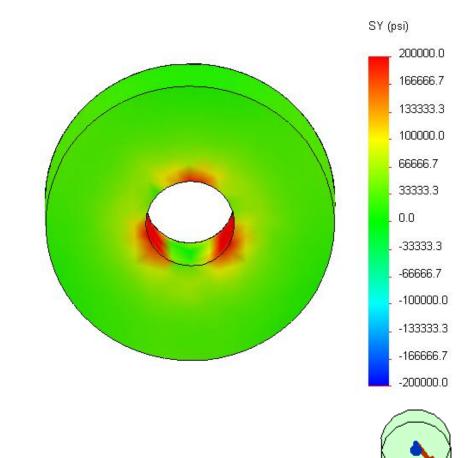
<u>- Mesh</u>

- 1" global tetra 4 mesh

Shrink Fit Contact Set - Results



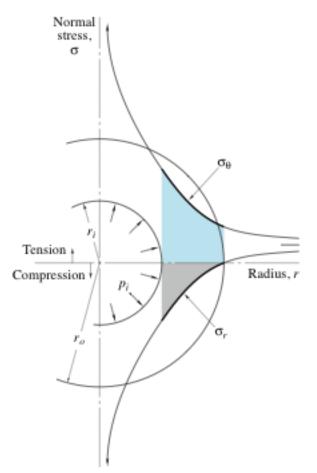
SX (psi) 15000.0 12500.0 10000.0 7500.0 5000.0 2500.0 0.0 -2500.0 -5000.0 -7500.0 -10000.0 -12500.0 -15000.0





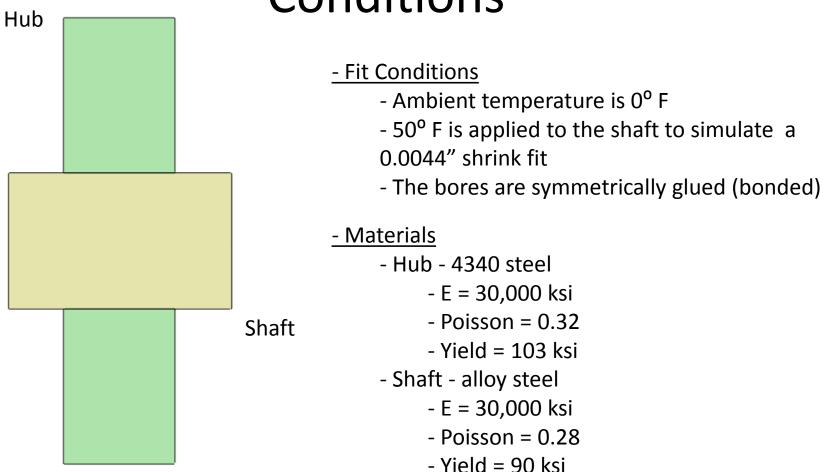
Hoop Stress

Shrink Fit Contact Set



Internally pressurized, thick-walled cylinder showing circumferential (hoop) and radial stresses for various radii (Hamrock, Schmid, & Jacobson - <u>Fundamentals of Machine Design</u>)

Thermal Differential Shrink Fit – Initial Conditions



- Constraints

- Fixed translation and rotation on hub outer bore

<u>- Mesh</u>

- 1" global tetra 4 mesh

Thermal Differential Shrink Fit – Results

