

Optimized unstiffened equivalent ellipsoidal shell
 PA= 1.0; applied external pressure = PA x 460 = 460 psi
 step 10 fabrication system, seff, layer 2, inner fiber
 nonlinear effective stress in shell skin - layer 2 inner fiber
 eqellipse.unstiffened.opm4 with a -mode 1 imperfection, Wimp=-0.2 inch

Θ x -35.84
 Θ y -13.14
 Θ z 35.63

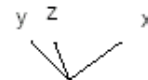


Fig. 90 STAGS models predicting **inner fiber effective stress, seff (psi)**, in the externally pressurized, optimized **imperfect unstiffened** equivalent ellipsoidal shell with a **-mode 1** axisymmetric buckling modal imperfection (BIGBOSOR4 model in Fig. 74 and STAGS model in Fig. 76) with amplitude, Wimp=-0.2 inch. The refined STAGS model shown at the top of this figure presents converged results. The fringe plot of effective stress in the refined STAGS model shown at the top of this figure does not include conditions near the pole.