

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

$\Theta$  x -35.84  
 $\Theta$  y -13.14  
 $\Theta$  z 35.63

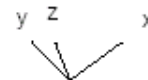


Fig. 91 STAGS model predicting **outer fiber effective stress, seff (psi)**, in the externally pressurized, optimized **imperfect unstiffened** equivalent ellipsoidal shell with a **-mode 1** axisymmetric buckling modal imperfection (BIGBOSOR4 model in Fig. 74 and STAGS model in Fig. 76) with amplitude, Wimp=-0.2 inch. BIGBOSOR4 predicts the maximum effective stress in Region 1 occurs in Segment 2 and equals 122840 psi. (See part 3 of Table 61).