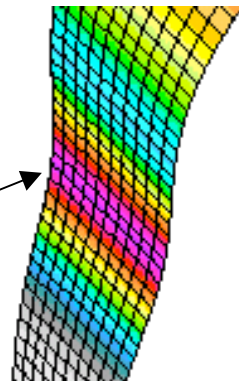
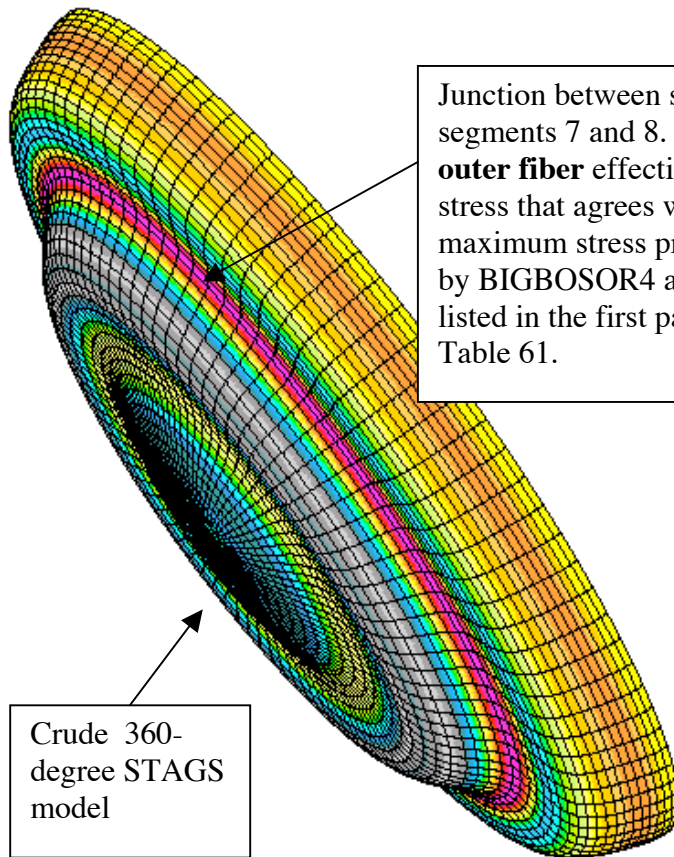


Refined STAGS model subtending 10 degrees of circumference. BIGBOSOR4 predicts that the maximum effective stress in Region 2 occurs at the junction of shell segments 7 and 8 and equals 117440 psi. (See the first part of Table 61).



1.158E+05  
1.084E+05  
1.010E+05  
9.357E+04  
8.616E+04  
7.874E+04  
7.132E+04



Junction between shell segments 7 and 8. It is this **outer fiber** effective stress that agrees with the maximum stress predicted by BIGBOSOR4 and listed in the first part of Table 61.

1.320E+05  
1.235E+05  
1.149E+05  
1.064E+05  
9.793E+04  
8.941E+04  
8.090E+04  
7.239E+04  
6.388E+04  
5.536E+04  
4.685E+04  
3.834E+04  
2.983E+04  
2.132E+04  
1.280E+04  
4.291E+03



Crude 360-degree STAGS model

Optimized unstiffened equivalent ellipsoidal shell  
PA= 1.0: applied external pressure = PA x 460 = 460 psi  
step 9 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

Θ x -35.84  
Θ y -13.14  
Θ z 35.63

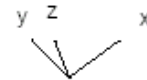


Fig. 87 STAGS models predicting **outer fiber effective stress, seff (psi)** in the externally pressurized, optimized **imperfect unstiffened** equivalent ellipsoidal shell with a **+mode 1** axisymmetric buckling modal imperfection (BIGBOSOR4 model in Fig. 74 and STAGS model in Fig. 76) with amplitude, Wimp=0.2 inch. 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.