

Curved panel, no edge warping, no axial bending, input data for STAGSUNIT listed in Table 12

PA= 1.00000E+01 PB= 0.00000E+00 PX= 0.00000E+00

step 16 fabrication system ,seff, layer 1, inner fiber

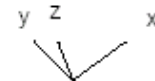
Fig.37 nonlinear effective stress - inner fiber; case=allernrgs34803

Minimum value = 3.10622E+02, Maximum value = 5.09705E+04

Θ x -35.84

Θ y -13.14

Θ z 35.63



2.905E+00

Fig. 37 STAGS prediction of inner fiber effective stress in the curved panel for which overall axial bending is NOT permitted. (IBCX0XL = 1 in the \*.STG file that, via execution of the PANDA2 processor, STAGSUNIT, generates the \*.bin and \*.inp input files for STAGS.) In-plane warping of the panel skin along all four edges of the STAGS model is prevented. This figure is analogous to Fig. 25. Prevention of overall axial bending in the post-buckling regime significantly reduces the maximum effective stress.