

5-bay flat panel: Input for the PANDA2 processor, STAGSUNIT, is listed in Table 19

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

Θ_x -35.84

step 459 fabrication system ,seff, layer 1, outer fiber

Θ_y -13.14

Fig.54 nonlinear effective stress - outer fiber; case=allflat

Θ_z 35.63

Minimum value = 4.78769E+02, Maximum value = 5.71283E+04

— 2.989E+00 —

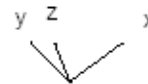


Fig. 54 STAGS prediction of the outer fiber effective stress in the flat panel at the design load, PA = 10.0 (Nx = -1000 lb/in). The outer fiber is on the same panel skin surface as that to which the external stringers are attached. Compare with Fig. 36, which pertains to the curved panel with internal stringers. No overall axial bending nor in-plane warping of the panel skin at the four edges are permitted in this STAGS model.