

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

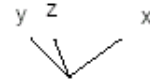
PA= 7.55500E+00 PB= 0.00000E+00 TIME= 3.89000E-01

step 450 displacement w contours

Fig.51 nonlinear w same view as linear buckling mode; case=allflat

Minimum value = -4.32524E-02, Maximum value = 4.38010E-02

⊖ x -35.84
⊖ y -13.14
⊖ z 35.63



— 2.989E+00 —

Fig. 51 STAGS prediction of deformed state of the flat panel at load factor, $PA = 7.555$ and at Time = 0.389 seconds. Compare with Fig. 50. Mode jumping has occurred again in the central stringer bay, this time near the panel end at $x=0$ inches. No overall axial bending nor in-plane panel skin edge warping are permitted in this STAGS model. NOTE: PANDA2 cannot predict different numbers of axial half waves in different stringer bays because the PANDA2 model of local post-buckling behavior [3,22] is based on the post-local buckling of a single discretized panel module model of the type shown in Figs. 5 – 7.