

The unstiffened shell was optimized by GENOPT with Mode 1 & Mode 2 axisymmetric imperfections.

mode 7, pcr = 0.16182E+01

STAGS prediction of linear bifurcation buckling

linear buckling of unstiffened perfect shell, optimized with mode 1 & mode 2 imperfections

Θ x -35.84

Θ y -13.14

Θ z 35.63

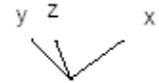


Fig. 80 Seventh linear bifurcation buckling mode of the optimized **unstiffened** equivalent ellipsoidal shell according to the STAGS program. pcr = 1.6182 means that the linear buckling pressure is  $1.6182 \times 460 = 744.37$  psi. This buckling mode is analogous to an axisymmetric buckling mode computed by BIGBOSOR4, what is called in GENOPT jargon “**mode 3**”.