Table 21 Input data for the PANDA2 processor BEGIN (allenflat3.BEG). This file pertains to the 10-stringer-bay flat panel. (See Fig. 64).

\$ Do you want a tutorial session and tutorial output? 9.7793 \$ Panel length normal to the plane of the screen, L1 \$ Panel length in the plane of the screen, L2 24.705 \$ Identify type of stiffener along L1 (N,T,J,Z,R,A,C,G) r 2.4705 \$ stiffener spacing, b 0.8234177 \$ width of stringer base, b2 (must be > 0, see Help) \$ height of stiffener (type H for sketch), h 0.84714 \$ Are the stringers cocured with the skin? n \$ What force/(axial length) will cause web peel-off? 1000000. \$ Is the next group of layers to be a "default group"(12 layrs!)? \$ number of layers in the next group in Segment no.( 1) \$ Can winding (layup) angles ever be decision variables? n \$ layer index (1,2,...), for layer no.( 1) \$ Is this a new layer type? У 0.0241410 \$ thickness for layer index no.( 1) 0 \$ winding angle (deg.) for layer index no.( 1) \$ material index (1,2,...) for layer index no.( 1) \$ Any more layers or groups of layers in Segment no.(1) n \$ Is the next group of layers to be a "default group"(12 layrs!)? n \$ number of layers in the next group in Segment no.( 2) \$ Can winding (layup) angles ever be decision variables? n \$ layer index (1,2,...), for layer no.(1)\$ Is this a new layer type? n \$ Any more layers or groups of layers in Segment no.( 2) n \$ Is the next group of layers to be a "default group"(12 layrs!)? \$ number of layers in the next group in Segment no.( 3) \$ Can winding (layup) angles ever be decision variables? n \$ layer index (1,2,...), for layer no.(1)\$ Proper comment will appear in DOC file. 0.8008700E-01 \$ thickness for layer index no.(2) 0 \$ winding angle (deg.) for layer index no.( 2) \$ material index (1,2,...) for layer index no.( 2) 1 \$ Any more layers or groups of layers in Segment no.( 3) n \$ choose external (0) or internal (1) stringers \$ Identify type of stiffener along L2 (N, T, J, Z, R, A) r 9.7793 \$ stiffener spacing, b \$ width of ring base, b2 (zero is allowed) \$ height of stiffener (type H for sketch), h 0.84714 \$ Are the rings cocured with the skin? n \$ Is the next group of layers to be a "default group"(12 layrs!)? n \$ number of layers in the next group in Segment no.( 3) 1 \$ Can winding (layup) angles ever be decision variables? n \$ layer index (1,2,...), for layer no.(1)\$ Is this a new layer type? 0.6006000E-01 \$ thickness for layer index no.( 3) \$ winding angle (deg.) for layer index no.( 3) 0 \$ material index (1,2,...) for layer index no.(3) 1 \$ Any more layers or groups of layers in Segment no.( 3) \$ choose external (0) or internal (1) rings

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$ Is the panel curved in the plane of the screen (Y for cyls.)?
   n
              $ Is panel curved normal to plane of screen? (answer N)
   n
              $ Is this material isotropic (Y or N)?
   У
0.1010000E+08 $ Young's modulus,
0.3000000
              $ Poisson's ratio,
                                                NU(1)
3884615.
              $ transverse shear modulus,
                                               G13(1)
              $ Thermal expansion coeff.,
                                             ALPHA(1)
       0
              $ residual stress temperature (positive),TEMPTUR( 1)
       0
              $ Want to supply a stress-strain "curve" for this mat'l (H)?
   n
              $ Want to specify maximum effective stress ?
   У
60000.00
              $ Maximum allowable effective stress in material type( 1)
              $ Do you want to take advantage of "bending overshoot"?
   n
0.1000000
              $ weight density (greater than 0!) of material type( 1)
   n
              $ Is lamina cracking permitted along fibers (type H(elp))?
       0
              $ Prebuckling: choose 0=bending included; 2=use membrane theory
       0
              $ Buckling: choose 0=simple support or 1=clamping
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