

Table 1 Input data for the PANDA2 processor BEGIN (allenrngs.BEG). This file, named allenrngs.BEG when BEGIN is executed, is stored here as the file, allenrngs.beg.table1. This table pertains to the curved panel.

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n          $ Do you want a tutorial session and tutorial output?
130.00000  $ Panel length normal to the plane of the screen, L1
157.08000  $ Panel length in the plane of the screen, L2
r          $ Identify type of stiffener along L1 (N,T,J,Z,R,A,C,G)
5.500000   $ stiffener spacing, b
1.833330   $ width of stringer base, b2 (must be > 0, see Help)
0.9800000  $ height of stiffener (type H for sketch), h
n          $ Are the stringers cocured with the skin?
1000000.   $ What force/(axial length) will cause web peel-off?
n          $ Is the next group of layers to be a "default group"(12 layrs!)?
1          $ number of layers in the next group in Segment no.( 1)
n          $ Can winding (layup) angles ever be decision variables?
1          $ layer index (1,2,...), for layer no.( 1)
y          $ Is this a new layer type?
0.0500000  $ thickness for layer index no.( 1)
0          $ winding angle (deg.) for layer index no.( 1)
1          $ material index (1,2,...) for layer index no.( 1)
n          $ 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!)?
1          $ number of layers in the next group in Segment no.( 2)
n          $ Can winding (layup) angles ever be decision variables?
1          $ layer index (1,2,...), for layer no.( 1)
n          $ 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!)?
1          $ number of layers in the next group in Segment no.( 3)
n          $ Can winding (layup) angles ever be decision variables?
2          $ layer index (1,2,...), for layer no.( 1)
y          $ Proper comment will appear in DOC file.
0.9000000E-01 $ thickness for layer index no.( 2)
0          $ winding angle (deg.) for layer index no.( 2)
1          $ material index (1,2,...) for layer index no.( 2)
n          $ Any more layers or groups of layers in Segment no.( 3)
1          $ choose external (0) or internal (1) stringers
r          $ Identify type of stiffener along L2 (N, T, J, Z, R, A)
13         $ stiffener spacing, b
0          $ width of ring base, b2 (zero is allowed)
0.9800000  $ height of stiffener (type H for sketch), h
n          $ Are the rings cocured with the skin?
n          $ Is the next group of layers to be a "default group"(12 layrs!)?
1          $ number of layers in the next group in Segment no.( 3)
n          $ Can winding (layup) angles ever be decision variables?
3          $ layer index (1,2,...), for layer no.( 1)
y          $ Is this a new layer type?
0.9000000E-01 $ thickness for layer index no.( 3)
0          $ winding angle (deg.) for layer index no.( 3)
1          $ material index (1,2,...) for layer index no.( 3)
n          $ Any more layers or groups of layers in Segment no.( 3)
1          $ choose external (0) or internal (1) rings
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      y      $ Is the panel curved in the plane of the screen (Y for cyls.)?
50.00000    $ Radius of curvature (cyl. rad.) in the plane of screen, R
      n      $ Is panel curved normal to plane of screen? (answer N)
      y      $ Is this material isotropic (Y or N)?
0.1010000E+08 $ Young's modulus,          E( 1)
0.3000000    $ Poisson's ratio,          NU( 1)
3884615.     $ transverse shear modulus,   G13( 1)
      0      $ Thermal expansion coeff.,   ALPHA( 1)
      0      $ residual stress temperature (positive),TEMPTUR( 1)
      n      $ Want to supply a stress-strain "curve" for this mat'l (H)?
      y      $ Want to specify maximum effective stress ?
60000.00     $ Maximum allowable effective stress in material type( 1)
      n      $ Do you want to take advantage of "bending overshoot"?
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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