



Fig. 9 PANDA2 prediction. Extreme fiber circumferential (hoop) strain versus axial resultant N_x for the optimized curved panel. Segment 2, Nodal Point 6 is the nodal point in the panel skin at the web root of the stringer. Segment 3, Nodal Point 1 is the nodal point in the stringer at the web root of the stringer. The hoop curvature change in the panel skin at the intersection of the panel skin with the web root is obtained by linear extrapolation from two neighboring nodal points in the stringer base (Segment 2 in the discretized single module model). This is done in order to avoid the generation by PANDA2 of unconservative optimum designs. Compare with STAGS predictions for a flat panel presented in Fig. 60.