



Fig. 274 The **optimized isogrid-stiffened equivalent ellipsoidal shell; Wimp=0.2 inch; the optimum design is listed in columns 2 and 3 of Table 33.** Extreme fiber meridional and hoop strain components in the stiffened shell during production of the "cos(theta)" residual dent displayed in Fig. 271. The Load Set B (PB,PX) load cycle corresponds to STAGS Run 1 followed by Run 3 followed by Run 4 in Fig. 270. These results are for the shell loaded by a cos(theta) imposed normal inward-directed **displacement** applied along Row 5 of Shell Segment 4 (Figs. 2. 169. 262, 271) from theta = 0 to 90 degrees. The reason why STAGS requires so many tiny steps during the loading phase (Runs 1 and 3) is unknown as of this writing. The tiny steps do not seem to be necessary when a "cos(theta)" imposed load distribution is used, as can be seen from Fig. 263.