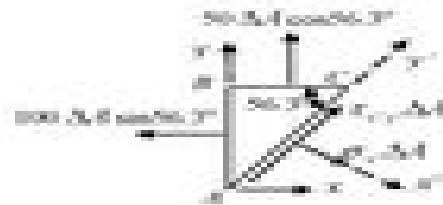


CHAPTER 8

PROBLEM (8.1) A 60-mm by 40-mm plate of 3-mm thickness is subjected to uniformly distributed normal tensile forces (Fig. P8.1). What normal and shear stresses exist along diagonal AC ? As was done in the derivations given in Sec. 8.2, use an approach based upon the equilibrium equations applied to the wedge-shaped half ABC of the plate.

SOLUTION



$$\angle ACB = \tan^{-1} \frac{3}{4} = 36.9^\circ$$

$$\sigma_x = \frac{30(3 \times 10^2) \text{ N}}{0.06(0.003)} = 100 \text{ MPa}$$

$$\sigma_y = \frac{100(3 \times 10^2) \text{ N}}{0.04(0.003)} = 250 \text{ MPa}$$

$$\sum F_x = 0: \quad \sigma_x \Delta t = 50 \Delta t \cos^2 56.3^\circ + 100 \Delta t \sin^2 56.3^\circ = 0$$

$$\sigma_x = 15.39 + 69.21 = 84.6 \text{ MPa} \quad \leftarrow$$

$$\sum F_y = 0: \quad \tau_{xy} \Delta t + 50 \Delta t \sin 56.3^\circ \cos 56.3^\circ - 100 \Delta t \sin 56.3^\circ \cos 56.3^\circ = 0$$

$$\tau_{xy} = -23.08 + 46.16 = 23.1 \text{ MPa} \quad \leftarrow$$

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A Gutmann



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