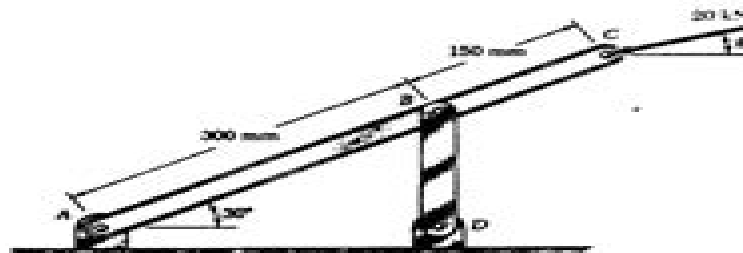


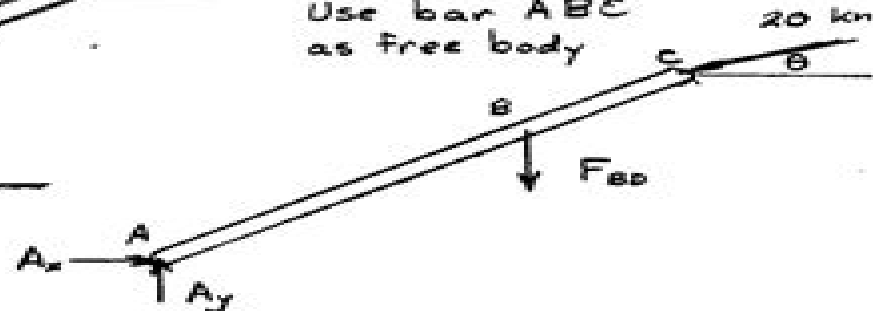
PROBLEM 1.7

1.7 Link BD consists of a single bar 30 mm wide and 12 mm thick. Knowing that each pin has a 10-mm diameter, determine the maximum value of the average normal stress in link BD if (a) $\theta = 0^\circ$, (b) $\theta = 90^\circ$



SOLUTION

Use bar ABC as free body



$$\Sigma M_A = 0$$

$$(a) \quad \theta = 0^\circ \quad (0.450 \sin 30^\circ)(20 \times 10^3) - (0.300 \cos 30^\circ) F_{BD} = 0$$

$$F_{BD} = 17.32 \times 10^3 \text{ N}$$

$$(b) \quad \theta = 90^\circ \quad (0.450 \cos 30^\circ)(20 \times 10^3) - (0.300 \cos 30^\circ) F_{BD} = 0$$

$$F_{BD} = -30 \times 10^3 \text{ N}$$

Areas

$$(a) \quad \text{tension loading} \quad A = (0.030 - 0.010)(0.012) = 240 \times 10^{-6} \text{ m}^2$$

$$(b) \quad \text{compression} \quad A = (0.030)(0.012) = 360 \times 10^{-6} \text{ m}^2$$

Stresses

$$(a) \quad \sigma = \frac{F_{BD}}{A} = \frac{17.32 \times 10^3}{240 \times 10^{-6}} = 72.2 \times 10^6 \quad 72.2 \text{ MPa} \quad \blacktriangleleft$$

$$(b) \quad \sigma = \frac{F_{BD}}{A} = \frac{-30 \times 10^3}{360 \times 10^{-6}} = -83.3 \times 10^6 \quad -83.3 \text{ MPa} \quad \blacktriangleleft$$

Johnston 6sweeper Manual

Clifford Lane



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