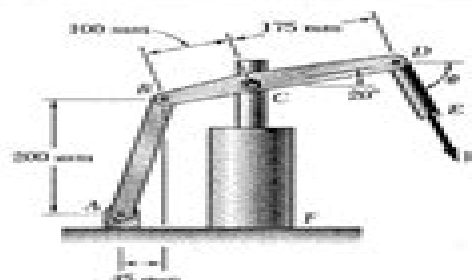


Problem 1.63



Length of member AB.

$$l_{AB} = \sqrt{200^2 + 45^2} = 205 \text{ mm}$$

$$\sum M_C = 0: \left(\frac{200}{205} F_{AB} \right) (100 \cos 20^\circ) - \left(\frac{45}{205} F_{AB} \right) (100 \sin 20^\circ) - (2 \cos 75^\circ) (175 \sin 20^\circ) - (2 \sin 75^\circ) (175 \cos 20^\circ) = 0$$

$$84.1696 F_{AB} - 348.668 = 0$$

$$F_{AB} = 4.1424 \text{ kN}$$

$$\sum F_x = 0: C_x - \frac{45}{205} (4.1424) + 2 \cos 75^\circ = 0$$

$$C_x = 0.3917 \text{ kN}$$

$$\sum F_y = 0: C_y - \frac{200}{205} (4.1424) - 2 \sin 75^\circ = 0$$

$$C_y = 5.9732 \text{ kN}$$

$$\text{Reaction at C: } C = \sqrt{C_x^2 + C_y^2}$$

$$C = 5.9860 \text{ kN}$$

(a) Shearing stress in bolt (single shear).

$$A_{br} = \frac{\pi}{4} d^2 = \frac{\pi}{4} (0.009)^2 = 63.617 \times 10^{-6} \text{ m}^2$$

$$\tau = \frac{C}{A_{br}} = \frac{5.9860 \times 10^3}{63.617 \times 10^{-6}} = 94.09 \times 10^6 \text{ Pa}$$

$$\tau = 94.1 \text{ MPa} \rightarrow$$

(b) Bearing stress at C in member BD.

$$A_b = dt = (0.009)(0.015) = 135 \times 10^{-6} \text{ m}^2$$

$$\sigma_b = \frac{C}{A_b} = \frac{5.9860 \times 10^3}{135 \times 10^{-6}} = 44.34 \times 10^6 \text{ Pa}$$

$$\sigma_b = 44.3 \text{ MPa} \rightarrow$$

1.63 The hydraulic cylinder CF, which partially controls the position of rod DE, has been locked in the position shown. Member BD is 15 mm thick and is connected to the vertical rod by a 9-mm-diameter bolt. Knowing that $P = 2 \text{ kN}$ and $\theta = 75^\circ$, determine (a) the average shearing stress in the bolt, (b) the bearing stress at C in member BD.

Use member BCD as a free body, and note that AB is a two force member.

$$P = 2 \text{ kN}$$

$$\theta = 75^\circ$$



Mechanics Of Material By Beer 6ed Solution Manual

JG Myers



Mechanics Of Material By Beer 6ed Solution Manual:

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