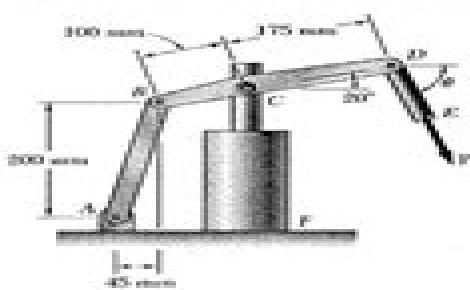


Problem 1.63

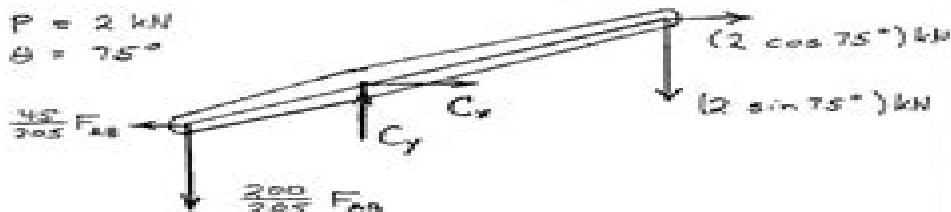


1.63. The hydraulic cylinder  $CF$ , which partially controls the position of rod  $DE$ , has been locked in the position shown. Member  $BD$  is 15 mm thick and is connected to the vertical rod by a 9-mm-diameter bolt. Knowing that  $P = 2$  kN and  $\theta = 75^\circ$ , determine (a) the average shearing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

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

$$\theta = 75^\circ$$



Length of member  $AB$ ,

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

$$\text{DE} \Sigma M_c = 0: \quad \left(\frac{200}{205} F_{AB}\right)(100 \cos 20^\circ) - \left(\frac{45}{205} F_{AB}\right)(100 \sin 20^\circ) \\ - (2 \cos 75^\circ)(175 \sin 20^\circ) - (2 \sin 75^\circ)(175 \cos 20^\circ) = 0$$

$$34.1696 F_{AB} - 343.668 = 0$$

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

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

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

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

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

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

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

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

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

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

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

(b) Bearing stress at  $C$  in member  $BD$ .

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

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

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

# Mechanics Of Material By Beer 6ed Solution Manual

**JG Myers**

**Mechanics Of Material By Beer 6ed Solution Manual:**

Decoding **Mechanics Of Material By Beer 6ed Solution Manual**: Revealing the Captivating Potential of Verbal Expression

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