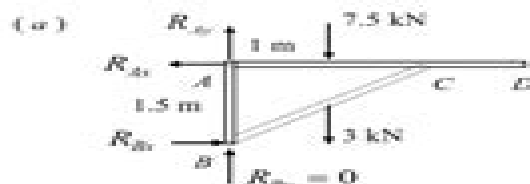


CHAPTER 1

SOLUTION (1.1)



Entire Structure

$$\sum M_A = 0: 7.5(1) + 3(1) = 1.5 R_{By}$$

$$\text{or } R_{By} = 7 \text{ kN}$$

$$\sum F_x = 0: R_{Ax} = -7 \text{ kN}$$

$$\sum F_y = 0: R_{By} = 10.5 \text{ kN}$$

Member AD

$$\sum M_A = 0: C_y(2) = 7.5(1);$$

$$C_y = 3.75 \text{ kN}$$

$$\sum F_y = 0: A_y = 7.5 - 3.75 = 3.75 \text{ kN}$$

$$\sum F_x = 0: C_x = 7 \text{ kN}$$

Segment AE

$$\sum F_x = 0: P = 7 \text{ kN}$$

$$\sum F_y = 0: V = 3.75 - \frac{1}{6} - \frac{10}{3} = 0.417 \text{ kN}$$

$$\sum M_A = 0: M = 3.75(1) - \frac{1}{6}(\frac{1}{2}) - \frac{10}{3}(\frac{1}{2}) = 1.528 \text{ kN} \cdot \text{m}$$

SOLUTION (1.2)

Refer to Fig. P1.2: $\sum M_A = 0: R_B = \frac{2}{3} pa \uparrow$

(a) $\sum M_a = 0: M = \frac{2}{3} pax - \frac{1}{6} px^2 \quad (a)$

Thus

$$\frac{dM}{dx} = 0: \frac{2}{3} pa - px = 0; \quad x = \frac{2}{3} a$$

Equation (a), for $x = \frac{2}{3} a$: $M_{\max} = \frac{2}{9} pa^2$

(b) Equation (a), for $x = \frac{2}{3} a$:

$$M = \frac{2}{3} pa(\frac{2}{3} a) - \frac{1}{6} p(\frac{2}{3} a)^2 = -\frac{1}{6} pa^2 = \frac{1}{6} pa^2 \curvearrowright$$

Shear force at $x = \frac{2}{3} a$:

$$V = -\frac{2}{3} pa + \frac{2}{3} pa = \frac{2}{3} pa \uparrow$$

SOLUTION (1.3)



Free-Body: Piston

$$\sum F_x = 0: P - \frac{7}{\sqrt{53}} F_{AB} = 0 \quad F_{AB} = \frac{\sqrt{53}}{7} P \quad (a)$$

(1.3 CONT.)

(CONT.)

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Ansel Ugural



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