

(1.3 CONT.)



Member AC

$$\sum M_A = 0: R_{Cy} = 2 R_{Cx}$$

$$\sum F_y = 0: R_{Cy} = 35 \text{ kN}$$

$$\sum F_x = 0: R_{Cx} = 70 \text{ kN}$$

(b)



Segment AD

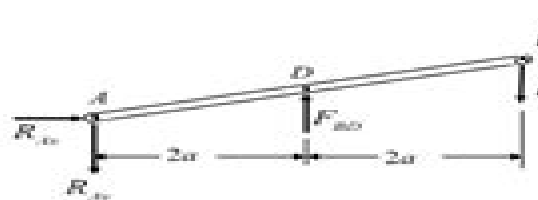
$$\sum F_x = 0: P = 70 \text{ kN}$$

$$\sum F_y = 0: V = 35 \text{ kN}$$

$$\sum M_D = 0: M = 35 \text{ kN} \cdot \text{m}$$

SOLUTION (1.4)

Link BD is a two-force member and hence the direction of F_{BD} is known.



(a) Free Body-Member ADE

$$\sum M_A = 0:$$

$$-P(4a) + F_{BD}(2a) = 0, \quad F_{BD} = 2P \uparrow$$

$$\sum F_x = 0: R_{Ax} = 0$$

$$\sum F_y = 0:$$

$$-R_{Ay} + F_{BD} - P = 0, \quad R_{Ay} = P \downarrow$$



(b) Free Body-Part AO

$$\sum F_x = 0: F_O = 0$$

$$\sum F_y = 0: V_O = P \uparrow$$

$$\sum M_O = 0: M_O = 1.5Pa \curvearrowright$$

SOLUTION (1.5)

We have $\theta = 115^\circ$. Apply Eqs. (1.11):

$$\begin{aligned} \sigma_{x'x'} &= \frac{1}{2}(-50 + 40) + \frac{1}{2}(-50 - 40) \cos 230^\circ - 20 \sin 230^\circ \\ &= -5 + 28.92 + 15.32 = 39.2 \text{ MPa} \end{aligned}$$

$$\tau_{x'y'} = -\frac{1}{2}(-50 - 40) \sin 230^\circ - 20 \cos 230^\circ = -21.6 \text{ MPa}$$

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