

(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

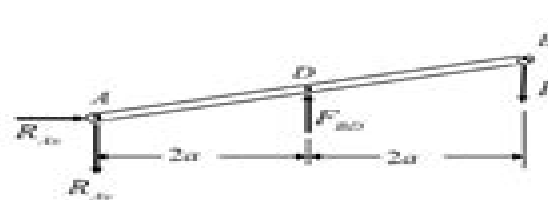
$$\sum F_x = 0: P = 70 \text{ kN}$$

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

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

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):

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

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

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Aerospace Structural Metals Handbook, 1989

Aerospace Structural Metals Handbook Belfour Stulen, Inc. Mechanical Properties Data Center, Belfour Stulen. Mechanical Properties Data Center, 1970

Solutions Manual to Accompany Essentials of Materials Science Albert G. Guy, 1976

Solutions Manual -- Stresses in Beams, Plates and Shells, Third Edition CRC Press, 2009-07-01

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