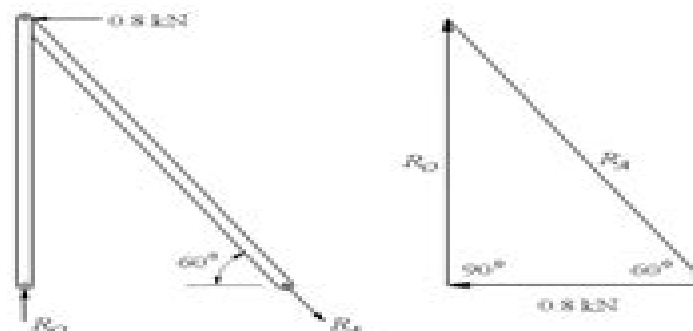


3-3

$$R_O = \frac{0.8}{\tan 30^\circ} = 1.39 \text{ kN} \quad \text{Ans.}$$

$$R_A = \frac{0.8}{\sin 30^\circ} = 1.6 \text{ kN} \quad \text{Ans.}$$



3-4

Step 1: Find  $R_A$  &  $R_E$

$$h = \frac{4.5}{\tan 30^\circ} = 7.794 \text{ m}$$

$$\Sigma M_A = 0$$

$$9R_E - 7.794(400 \cos 30^\circ) - 4.5(400 \sin 30^\circ) = 0$$

$$R_E = 400 \text{ N} \quad \text{Ans.}$$

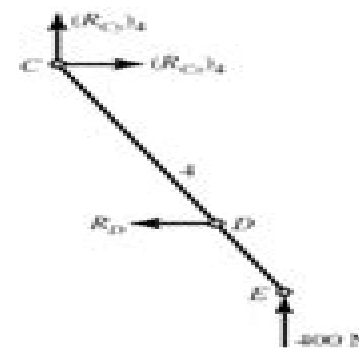
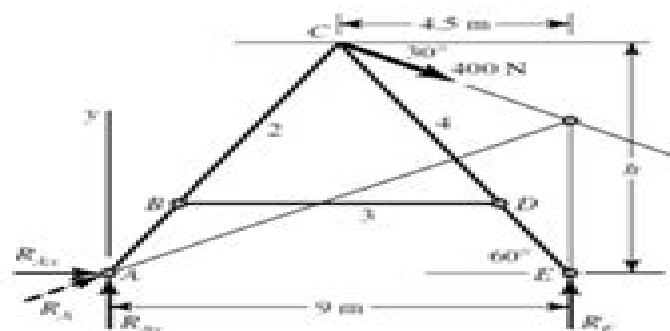
$$\Sigma F_x = 0 \quad R_{Ax} + 400 \cos 30^\circ = 0$$

$$R_{Ax} = -346.4 \text{ N}$$

$$\Sigma F_y = 0 \quad R_{Ay} + 400 - 400 \sin 30^\circ = 0$$

$$R_{Ay} = -200 \text{ N}$$

$$R_A = \sqrt{346.4^2 + 200^2} = 400 \text{ N} \quad \text{Ans.}$$



Step 2: Find components of  $R_C$  on link 4 and  $R_D$

$$\Sigma M_C = 0$$

$$400(4.5) - (7.794 - 1.9)R_D = 0$$

$$R_D = 305.4 \text{ N} \quad \text{Ans.}$$

$$\Sigma F_x = 0 \Rightarrow (R_C)_x = 305.4 \text{ N}$$

$$\Sigma F_y = 0 \Rightarrow (R_C)_y = -400 \text{ N}$$

# Mechanical Engineering Design 9th Edition Solutions

**Sabine Zange**



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