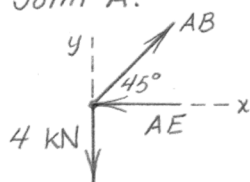


4/5

Joint A:



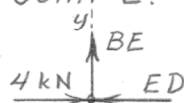
$$\sum F_y = 0: AB \sin 45^\circ - 4 = 0$$

$$AB = 5.66 \text{ kN T}$$

$$\sum F_x = 0: 5.66 \cos 45^\circ - AE = 0$$

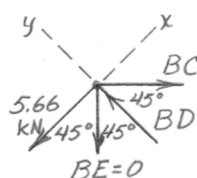
$$AE = 4 \text{ kN C}$$

Joint E:



$$\sum F_y = 0: \underline{BE = 0}$$

Joint B:



$$\sum F_x = 0: BC \cos 45^\circ - 5.66 = 0$$

$$BC = 8 \text{ kN T}$$

$$\sum F_y = 0: BD - 8 \cos 45^\circ = 0$$

$$\underline{BD = 5.66 \text{ kN C}}$$

WILEY