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6-2. The truss, used to support a balcony, is subjected to the loading shown. Approximate each joint as a pin and determine the force in each member. State whether the members are in tension or compression. Set  $P_1 = 600$  lb,  $P_2 = 400$  lb.



Joint A :

$$+\circlearrowleft \sum M_F = 0; \quad F_{AD} \sin 45^\circ - 600 = 0$$

$$F_{AD} = 848.528 = 849 \text{ lb (C)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad F_{AB} - 848.528 \cos 45^\circ = 0$$

$$F_{AB} = 600 \text{ lb (T)} \quad \text{Ans}$$



Joint B :

$$+\circlearrowleft \sum M_F = 0; \quad F_{BD} - 400 = 0$$

$$F_{BD} = 400 \text{ lb (C)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad F_{BE} - 400 = 0$$

$$F_{BE} = 400 \text{ lb (T)} \quad \text{Ans}$$



Joint D :

$$+\circlearrowleft \sum M_F = 0; \quad F_{DE} \sin 45^\circ - 400 - 848.528 \sin 45^\circ = 0$$

$$F_{DE} = 1414.214 \text{ lb} = 1.41 \text{ kip (T)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad 848.528 \cos 45^\circ + 1414.214 \cos 45^\circ - F_{AD} = 0$$

$$F_{AD} = 1600 \text{ lb} = 1.60 \text{ kip (C)} \quad \text{Ans}$$



# Statics Chapter 6 Solutions

**Ian Pickup**



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