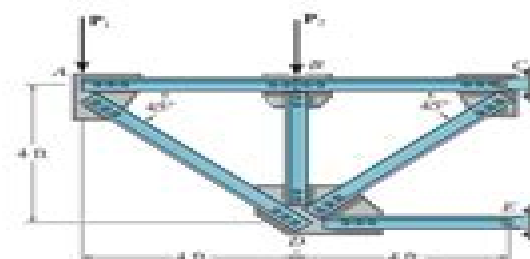


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6–3. The truss, used to support a balcony, is subjected to the loading shown. Approximate each joint as a pin and determine the force in each member. State whether the members are in tension or compression. Set $P_1 = 800$ lb, $P_2 = 0$.



Joint A :

$$+\uparrow \Sigma F_y = 0; \quad F_{AD} \sin 45^\circ - 800 = 0$$

$$F_{AD} = 1131.4 \text{ lb} = 1.13 \text{ kip (C)} \quad \text{Ans}$$

$$+\rightarrow \Sigma F_x = 0; \quad F_{AE} - 1131.4 \cos 45^\circ = 0$$

$$F_{AE} = 800 \text{ lb (T)} \quad \text{Ans}$$



Joint B :

$$+\uparrow \Sigma F_y = 0; \quad F_{BD} - 0 = 0$$

$$F_{BD} = 0 \quad \text{Ans}$$

$$+\rightarrow \Sigma F_x = 0; \quad F_{BE} - 800 = 0$$

$$F_{BE} = 800 \text{ lb (T)} \quad \text{Ans}$$



Joint D :

$$+\uparrow \Sigma F_y = 0; \quad F_{DC} \sin 45^\circ - 0 - 1131.4 \sin 45^\circ = 0$$

$$F_{DC} = 1131.4 \text{ lb} = 1.13 \text{ kip (T)} \quad \text{Ans}$$

$$+\rightarrow \Sigma F_x = 0; \quad 1131.4 \cos 45^\circ + 1131.4 \cos 45^\circ - F_{DE} = 0$$

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



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R. C. Hibbeler



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