

EXAMPLE 6.7

Determine the force in member EB of the roof truss shown in Fig. 6-18a. Indicate whether the member is in tension or compression.

SOLUTION

Free-Body Diagrams. By the method of sections, any imaginary section that cuts through EB , Fig. 6-18a, will also have to cut through three other members for which the forces are unknown. For example, section aa cuts through ED , EB , FB , and AB . If a free-body diagram of the left side of this section is considered, Fig. 6-18b, it is possible to obtain F_{ED} by summing moments about B to eliminate the other three unknowns; however, F_{EB} cannot be determined from the remaining two equilibrium equations. One possible way of obtaining F_{EB} is first to determine F_{ED} from section aa , then use this result on section bb , Fig. 6-18c, which is shown in Fig. 6-18c. Here the force system is concurrent and our sectioned free-body diagram is the same as the free-body diagram for the joint at E .



Fig. 6-18

Equations of Equilibrium. In order to determine the moment of F_{ED} about point B , Fig. 6-18b, we will use the principle of transmissibility and slide the force to point C and then resolve it into its rectangular components as shown. Therefore,

$$\begin{aligned} \zeta + \Sigma M_B = 0; \quad & 1000 \text{ N}(4 \text{ m}) + 3000 \text{ N}(2 \text{ m}) - 4000 \text{ N}(4 \text{ m}) \\ & + F_{ED} \sin 30^\circ(4 \text{ m}) = 0 \\ & F_{ED} = 3000 \text{ N} \quad (\text{C}) \end{aligned}$$

Considering now the free-body diagram of section bb , Fig. 6-18c, we have

$$\begin{aligned} \rightarrow \Sigma F_x = 0; \quad & F_{ED} \cos 30^\circ - 3000 \cos 30^\circ \text{ N} = 0 \\ & F_{ED} = 3000 \text{ N} \quad (\text{C}) \\ + \uparrow \Sigma F_y = 0; \quad & 2(3000 \sin 30^\circ \text{ N}) - 1000 \text{ N} - F_{EB} = 0 \\ & F_{EB} = 2000 \text{ N} \quad (\text{T}) \end{aligned}$$

Ans.

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