

## 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,

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

$$F_{ED} = 3000 \text{ N} \quad (C)$$

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

$$\rightarrow \Sigma F_x = 0; \quad F_{EF} \cos 30^\circ - 3000 \cos 30^\circ \text{ N} = 0$$

$$F_{EF} = 3000 \text{ N} \quad (C)$$

$$+\uparrow \Sigma F_y = 0; \quad 2(3000 \sin 30^\circ \text{ N}) - 1000 \text{ N} - F_{EB} = 0$$

$$F_{EB} = 2000 \text{ N} \quad (T)$$

Ans.

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