

Problem #1

Determine the forces in the members of the roof truss shown.

Figure:



Reqd:  $F_{AB}$   
 $F_{BC}$   
 $F_{BD}$   
 $F_{AC}$   
 $F_{CD}$

Solution w/ FBD:

Joint C



$$\sum F_V = 0$$

$$0 = -100 + F_{BC}$$

$$F_{BC} = 100 \text{ kN (T)} \quad \textcircled{1}$$

$$\sum F_H = 0$$

$$0 = F_{BD} - F_{AC} \quad \textcircled{2}$$

Joint A



$$\sum F_H = 0$$

$$0 = F_{AC} - F_{AB} \cos 30$$

$$F_{AC} = 100 \cos 30$$

$$F_{AC} = 50\sqrt{3} \text{ kN (T)} \quad \textcircled{3}$$

$$\sum F_V = 0$$

$$0 = R_A - F_{AB} \sin 30$$

$$R_A = 50 \text{ kN}$$

Joint B



$$\sum F_V = 0$$

$$0 = F_{BD} \sin 30 + F_{AB} \sin 30 - 100 \sin 30 - 100$$

$$F_{BD} + F_{AB} = 200 \text{ (T)} \quad \textcircled{4}$$

$$\sum F_H = 0$$

$$0 = F_{AB} \cos 30 - F_{BD} \cos 30 + 100 \cos 30$$

$$-F_{AB} + F_{BD} = 100 \quad \textcircled{5}$$

$$F_{AB} = F_{BD} - 100$$

Eq. ①

$$F_{CD} = F_{AC}$$

$$F_{CD} = 50\sqrt{3} \text{ kN (T)} \quad \textcircled{6}$$

Eq. 2 & ③

$$F_{BD} + (F_{BD} - 100) = 200 \text{ (T)}$$

$$2F_{BD} = 200 \text{ (T)} + 100$$

$$2F_{BD} = 300$$

$$F_{BD} = 150 \text{ kN (T)} \quad \textcircled{7}$$

$$F_{AB} = 150 - 100$$

$$F_{AB} = 50 \text{ kN (C)} \quad \textcircled{8}$$

# Engineering Mechanics Statics Problems And Solutions

**Lingsheng Yao**



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