

3-3. If the mass of the girder is 3 Mg and its center of mass is located at point G , determine the tension developed in cables AB , BC , and BD for equilibrium.



Equations of Equilibrium: The girder is suspended from cable AB . In order to meet the conditions of equilibrium the tensile force developed in cable AB must be equal to the weight of the girder. Thus,

$$F_{AB} = 3000(9.81) = 29\,430 \text{ N} = 29.43 \text{ kN} = 29.4 \text{ kN} \quad \text{Ans.}$$

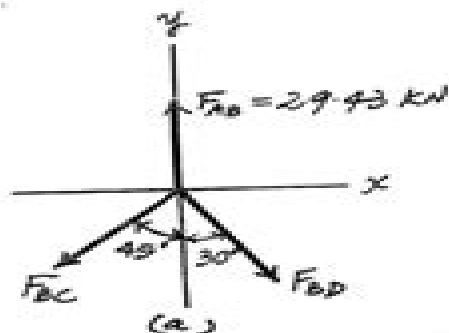
Applying the equations of equilibrium along the x and y axes to the free-body diagram in Fig. (a),

$$\sum F_x = 0; \quad F_{BD} \sin 30^\circ - F_{BC} \sin 45^\circ = 0 \quad (1)$$

$$+ \uparrow \sum F_y = 0; \quad 29.43 - F_{BD} \cos 30^\circ - F_{BC} \cos 45^\circ = 0 \quad (2)$$

Solving Eqs. (1) and (2), yields

$$F_{BC} = 15.2 \text{ kN} \quad F_{BD} = 21.5 \text{ kN} \quad \text{Ans.}$$



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