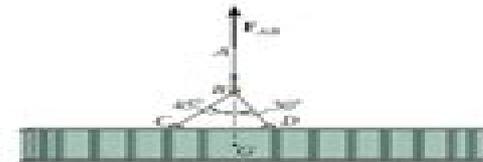


3-3. If the mass of the girder is 3 Mg and its center of mass is located at point  $G$ , determine the tension developed in cables  $AB$ ,  $BC$ , and  $BD$  for equilibrium.



**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,

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

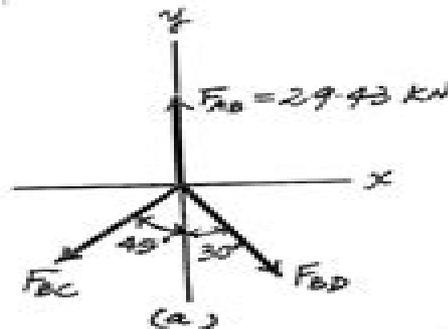
Applying the equations of equilibrium along the  $x$  and  $y$  axes to the free-body diagram in Fig. (a),

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

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

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

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



# Chapter 3 Solutions Engineering Mechanics Statics

**Joacim Rocklöv**



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