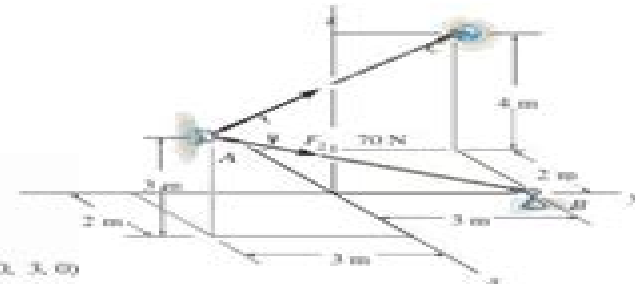


*2-76.

Determine the magnitude of the projection of the force F_1 along cable AC .



Solution

Unit Vectors. Here, the coordinates of points A , B and C are $A(2, -3, 3)$ m, $B(0, 3, 0)$ and $C(-2, 3, 4)$ m, respectively. Thus, the unit vectors along AB and AC are

$$\mathbf{u}_{AB} = \frac{(0 - 2)\mathbf{i} + [3 - (-3)]\mathbf{j} + (0 - 3)\mathbf{k}}{\sqrt{(0 - 2)^2 + [3 - (-3)]^2 + (0 - 3)^2}} = -\frac{2}{7}\mathbf{i} + \frac{6}{7}\mathbf{j} - \frac{3}{7}\mathbf{k}$$

$$\mathbf{u}_{AC} = \frac{(-2 - 2)\mathbf{i} + [3 - (-3)]\mathbf{j} + (4 - 3)\mathbf{k}}{\sqrt{(-2 - 2)^2 + [3 - (-3)]^2 + (4 - 3)^2}} = -\frac{4}{2.53}\mathbf{i} + \frac{6}{2.53}\mathbf{j} + \frac{1}{2.53}\mathbf{k}$$

Force Vector. For F_1 ,

$$\mathbf{F}_1 = F_1 \mathbf{u}_{AB} = 70 \left(-\frac{2}{7}\mathbf{i} + \frac{6}{7}\mathbf{j} - \frac{3}{7}\mathbf{k} \right) = [-20\mathbf{i} + 60\mathbf{j} - 30\mathbf{k}] \text{ N}$$

Projected Component of F_1 Along AC . It is

$$\begin{aligned} (F_1)_{AC} &= \mathbf{F}_1 \cdot \mathbf{u}_{AC} = [-20\mathbf{i} + 60\mathbf{j} - 30\mathbf{k}] \cdot \left(-\frac{4}{2.53}\mathbf{i} + \frac{6}{2.53}\mathbf{j} + \frac{1}{2.53}\mathbf{k} \right) \\ &= (-20)\left(-\frac{4}{2.53}\right) + 60\left(\frac{6}{2.53}\right) + (-30)\left(\frac{1}{2.53}\right) \\ &= 56.32 \text{ N} \approx 56.3 \text{ N} \end{aligned}$$

Ans.

The positive sign indicates that this component points in the same direction as \mathbf{u}_{AC} .

Ans:
 $u = 36.4^\circ$

Mechanics Of Materials Fivth Answer

VM Jensen



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