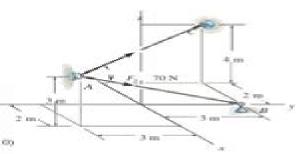
*2-760

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

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

$$u_{\infty} = \frac{(-2-2)i + [3-(-3)ij + (4-3)k}{2(-2-2)^2 + [3-(-3)]^2 + (4-3)^2} = -\frac{4}{253}i + \frac{6}{253}j + \frac{1}{253}k$$

Force Vector, For F₁

$$\mathbf{F}_{i} \; = \; \mathbf{F}_{i} \; \mathbf{u}_{AB} \; = \; 70 \; a - \frac{2}{7} \; i \; + \; \frac{6}{7} \; \mathbf{J} \; - \; \frac{3}{7} \; \mathbf{kb} \; = \; (- \; 20i \; + \; 60j \; - \; \; 200k) \; N$$

Projected Component of Fr. Along AC, it is

$$(F_i)_{AC} = F_i^{\dagger} \mathbf{u}_{AC} = \frac{(-20\mathbf{i} + 60\mathbf{j} - 30\mathbf{k})^{\dagger} \mathbf{a} - \frac{4}{253} \mathbf{i} + \frac{6}{253} \mathbf{j} + \frac{1}{253} \mathbf{k} \mathbf{b}}{4}$$

= $(-20)\mathbf{a} - \frac{4}{253}\mathbf{b} + 60\mathbf{a} + \frac{1}{253}\mathbf{b} + (-30)\mathbf{a} + \frac{1}{253}\mathbf{b}$

The positive sign indicates that this component points in the same direction as u.ac.

Amsc u = 36.4°

Mechanics Of Materials Fivth Answer

David Kirk

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