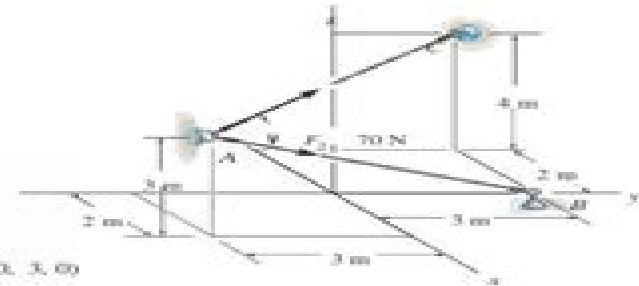


*2-76.

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

Jianjun Gao



Mechanics Of Materials Fivth Answer:

Reviewing **Mechanics Of Materials Fivth Answer**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Mechanics Of Materials Fivth Answer**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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