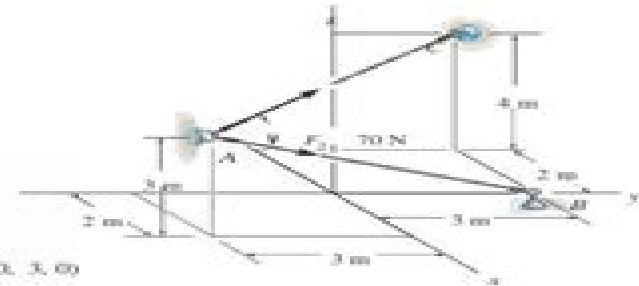


*2-76.

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

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

Ans.

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

Ans:
 $a = 36.4^\circ$

Mechanics Of Materials Fivth Answer

RJ Alexander



Mechanics Of Materials Fivth Answer:

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Table of Contents Mechanics Of Materials Fifth Answer

1. Understanding the eBook Mechanics Of Materials Fifth Answer
 - The Rise of Digital Reading Mechanics Of Materials Fifth Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Of Materials Fifth Answer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanics Of Materials Fifth Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Of Materials Fifth Answer
 - Personalized Recommendations
 - Mechanics Of Materials Fifth Answer User Reviews and Ratings
 - Mechanics Of Materials Fifth Answer and Bestseller Lists
5. Accessing Mechanics Of Materials Fifth Answer Free and Paid eBooks
 - Mechanics Of Materials Fifth Answer Public Domain eBooks

- Mechanics Of Materials Fivth Answer eBook Subscription Services
- Mechanics Of Materials Fivth Answer Budget-Friendly Options
- 6. Navigating Mechanics Of Materials Fivth Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics Of Materials Fivth Answer Compatibility with Devices
 - Mechanics Of Materials Fivth Answer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics Of Materials Fivth Answer
 - Highlighting and Note-Taking Mechanics Of Materials Fivth Answer
 - Interactive Elements Mechanics Of Materials Fivth Answer
- 8. Staying Engaged with Mechanics Of Materials Fivth Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics Of Materials Fivth Answer
- 9. Balancing eBooks and Physical Books Mechanics Of Materials Fivth Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics Of Materials Fivth Answer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanics Of Materials Fivth Answer
 - Setting Reading Goals Mechanics Of Materials Fivth Answer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanics Of Materials Fivth Answer
 - Fact-Checking eBook Content of Mechanics Of Materials Fivth Answer
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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