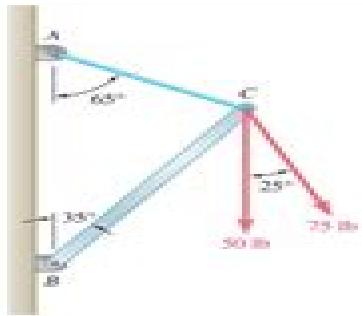
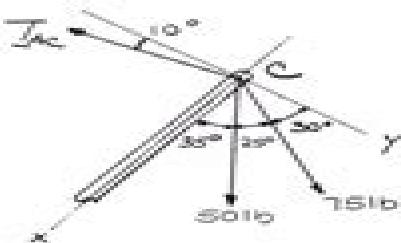


PROBLEM 2.41



Determine (a) the required tension in cable AC , knowing that the resultant of the three forces exerted at Point C of boom BC must be directed along BC , (b) the corresponding magnitude of the resultant.

SOLUTION



Using the x and y axes shown:

$$R_x = \sum F_x = T_{AC} \sin 10^\circ + (50 \text{ lb}) \cos 30^\circ + (75 \text{ lb}) \cos 60^\circ \\ = T_{AC} \sin 10^\circ + 78.458 \text{ lb} \quad (1)$$

$$R_y = \sum F_y = (50 \text{ lb}) \sin 30^\circ + (75 \text{ lb}) \sin 60^\circ - T_{AC} \cos 10^\circ \\ R_y = 93.631 \text{ lb} - T_{AC} \cos 10^\circ \quad (2)$$

(a) Set $R_x = 0$ in Eq. (2):

$$93.631 \text{ lb} - T_{AC} \cos 10^\circ = 0 \\ T_{AC} = 95.075 \text{ lb} \quad T_{AC} = 95.1 \text{ lb} \blacktriangleleft$$

(b) Substituting for T_{AC} in Eq. (1):

$$R_x = (95.075 \text{ lb}) \sin 10^\circ + 78.458 \text{ lb} \\ = 94.968 \text{ lb} \\ R = R_x \quad R = 95.0 \text{ lb} \blacktriangleleft$$

Vector 12 Supplement Solution Manual

**George Brinton Thomas (Jr.), Ross L.
Finney**

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Table of Contents Vector 12 Supplement Solution Manual

1. Understanding the eBook Vector 12 Supplement Solution Manual
 - The Rise of Digital Reading Vector 12 Supplement Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Vector 12 Supplement Solution Manual
 - 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 Vector 12 Supplement Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vector 12 Supplement Solution Manual
 - Personalized Recommendations
 - Vector 12 Supplement Solution Manual User Reviews and Ratings
 - Vector 12 Supplement Solution Manual and Bestseller Lists
5. Accessing Vector 12 Supplement Solution Manual Free and Paid eBooks
 - Vector 12 Supplement Solution Manual Public Domain eBooks
 - Vector 12 Supplement Solution Manual eBook Subscription Services
 - Vector 12 Supplement Solution Manual Budget-Friendly Options
6. Navigating Vector 12 Supplement Solution Manual eBook Formats

- ePub, PDF, MOBI, and More
- Vector 12 Supplement Solution Manual Compatibility with Devices
- Vector 12 Supplement Solution Manual Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Vector 12 Supplement Solution Manual
- Highlighting and Note-Taking Vector 12 Supplement Solution Manual
- Interactive Elements Vector 12 Supplement Solution Manual

8. Staying Engaged with Vector 12 Supplement Solution Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Vector 12 Supplement Solution Manual

9. Balancing eBooks and Physical Books Vector 12 Supplement Solution Manual

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Vector 12 Supplement Solution Manual

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Vector 12 Supplement Solution Manual

- Setting Reading Goals Vector 12 Supplement Solution Manual
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Vector 12 Supplement Solution Manual

- Fact-Checking eBook Content of Vector 12 Supplement Solution Manual
- 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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