



PROBLEM 2.49

Two cables are tied together at C and are loaded as shown. Knowing that $P = 300$ N, determine the tension in cables AC and BC .

SOLUTION

Free-Body Diagram



$$+\rightarrow \Sigma F_x = 0 \quad -T_{CA} \sin 30^\circ + T_{CB} \sin 30^\circ - P \cos 45^\circ - 200 \text{ N} = 0$$

For $P = 200$ N we have,

$$-0.5T_{CA} + 0.5T_{CB} + 212.13 - 200 = 0 \quad (1)$$

$$+\uparrow \Sigma F_y = 0 \quad T_{CA} \cos 30^\circ - T_{CB} \cos 30^\circ - P \sin 45^\circ = 0$$

$$0.86603T_{CA} + 0.86603T_{CB} - 212.13 = 0 \quad (2)$$

Solving equations (1) and (2) simultaneously gives,

$$T_{CA} = 134.6 \text{ N} \quad \blacktriangleleft$$

$$T_{CB} = 110.4 \text{ N} \quad \blacktriangleleft$$

Vector Mechanics Solution Manual

Jessica J Manson



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Table of Contents Vector Mechanics Solution Manual

1. Understanding the eBook Vector Mechanics Solution Manual
 - The Rise of Digital Reading Vector Mechanics Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Vector Mechanics 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 Mechanics Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vector Mechanics Solution Manual
 - Personalized Recommendations
 - Vector Mechanics Solution Manual User Reviews and Ratings

- Vector Mechanics Solution Manual and Bestseller Lists
- 5. Accessing Vector Mechanics Solution Manual Free and Paid eBooks
 - Vector Mechanics Solution Manual Public Domain eBooks
 - Vector Mechanics Solution Manual eBook Subscription Services
 - Vector Mechanics Solution Manual Budget-Friendly Options
- 6. Navigating Vector Mechanics Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Vector Mechanics Solution Manual Compatibility with Devices
 - Vector Mechanics Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vector Mechanics Solution Manual
 - Highlighting and Note-Taking Vector Mechanics Solution Manual
 - Interactive Elements Vector Mechanics Solution Manual
- 8. Staying Engaged with Vector Mechanics Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vector Mechanics Solution Manual
- 9. Balancing eBooks and Physical Books Vector Mechanics Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vector Mechanics Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Vector Mechanics Solution Manual
 - Setting Reading Goals Vector Mechanics Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Vector Mechanics Solution Manual
 - Fact-Checking eBook Content of Vector Mechanics 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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