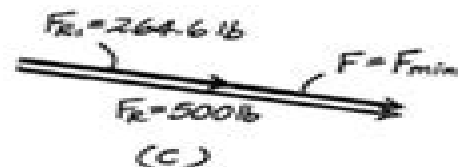
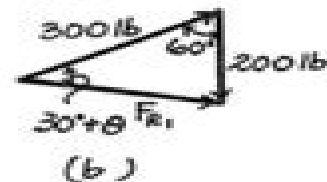
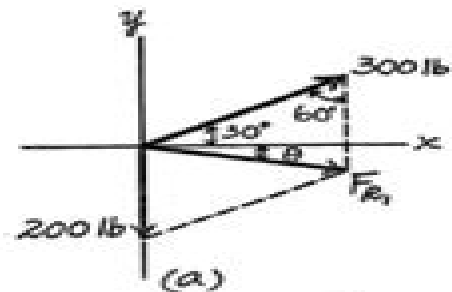


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2-36. Three chains act on the bracket such that they create a resultant force having a magnitude of 500 lb. If two of the chains are subjected to known forces, as shown, determine the angle θ of the third chain measured clockwise from the positive x axis, so that the magnitude of force \mathbf{F} in this chain is a minimum. All forces lie in the x - y plane. What is the magnitude of \mathbf{F} ? *Hint:* First find the resultant of the two known forces. Force \mathbf{F} acts in this direction.



Cosine law:

$$F_{R1} = \sqrt{300^2 + 200^2 - 2(300)(200)\cos 90^\circ} = 264.6 \text{ lb}$$

Sine law:

$$\frac{\sin 90^\circ}{200} = \frac{\sin 30^\circ}{264.6} \quad \theta = 15.9^\circ \quad \text{Ans}$$

When \mathbf{F} is directed along F_{R1} , \mathbf{F} will be minimum to create the resultant force.

$$\begin{aligned} F_R &= F_{R1} + F \\ 500 &= 264.6 + F_{\min} \\ F_{\min} &= 235 \text{ lb} \quad \text{Ans} \end{aligned}$$

Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7

R. C. Hibbeler



Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7:

Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7 Book Review: Unveiling the Power of Words

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Table of Contents Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7

1. Understanding the eBook Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7
 - The Rise of Digital Reading Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7
 - 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 Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7
 - Personalized Recommendations
 - Engineering Mechanics Statics 12th Edition Solution Manual Chapter 7 User Reviews and Ratings

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