



PROBLEM 2.16

Solve Prob. 2.1 by trigonometry.

PROBLEM 2.1

Two forces are applied as shown to a hook. Determine graphically the magnitude and direction of their resultant using (a) the parallelogram law, (b) the triangle rule.

SOLUTION



Using the law of cosines:

$$\begin{aligned} R^2 &= (900 \text{ N})^2 + (600 \text{ N})^2 \\ &\quad - 2(900 \text{ N})(600 \text{ N})\cos(135^\circ) \\ R &= 1390.57 \text{ N} \end{aligned}$$

Using the law of sines:

$$\begin{aligned} \frac{\sin(\alpha - 30^\circ)}{600 \text{ N}} &= \frac{\sin(135^\circ)}{1390.57 \text{ N}} \\ \alpha - 30^\circ &= 17.7642^\circ \\ \alpha &= 47.764^\circ \end{aligned}$$

$$\mathbf{R} = 1391 \text{ N } \angle 47.8^\circ \blacktriangleleft$$

Beer Johnston 5th Edition Solution Manual

Joseph F. Shelley



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Table of Contents Beer Johnston 5th Edition Solution Manual

1. Understanding the eBook Beer Johnston 5th Edition Solution Manual
 - The Rise of Digital Reading Beer Johnston 5th Edition Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Beer Johnston 5th Edition 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 Beer Johnston 5th Edition Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Beer Johnston 5th Edition Solution Manual

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

- Fact-Checking eBook Content of Beer Johnston 5th Edition 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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