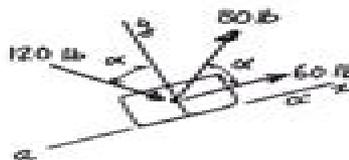


PROBLEM 2.42

For the block of Problems 2.37 and 2.38, determine (a) the required value of α if the resultant of the three forces shown is to be parallel to the incline, (b) the corresponding magnitude of the resultant.

SOLUTION



Select the x axis to be along a' .

Then

$$R_x = \Sigma F_x = (60 \text{ lb}) + (80 \text{ lb})\cos\alpha + (120 \text{ lb})\sin\alpha \quad (1)$$

and

$$R_y = \Sigma F_y = (80 \text{ lb})\sin\alpha - (120 \text{ lb})\cos\alpha \quad (2)$$

(a) Set $R_y = 0$ in Eq. (2).

$$(80 \text{ lb})\sin\alpha - (120 \text{ lb})\cos\alpha = 0$$

Dividing each term by $\cos\alpha$ gives:

$$(80 \text{ lb})\tan\alpha = 120 \text{ lb}$$

$$\tan\alpha = \frac{120 \text{ lb}}{80 \text{ lb}}$$

$$\alpha = 56.310^\circ$$

$$\alpha = 56.3^\circ \blacktriangleleft$$

(b) Substituting for α in Eq. (1) gives:

$$R_x = 60 \text{ lb} + (80 \text{ lb})\cos 56.31^\circ + (120 \text{ lb})\sin 56.31^\circ = 204.22 \text{ lb} \quad R_x = 204 \text{ lb} \blacktriangleleft$$

Beer Johnston Vector Mechanics Solution 7

Ahmed A. Shabana



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Table of Contents Beer Johnston Vector Mechanics Solution 7

1. Understanding the eBook Beer Johnston Vector Mechanics Solution 7
 - The Rise of Digital Reading Beer Johnston Vector Mechanics Solution 7
 - Advantages of eBooks Over Traditional Books
2. Identifying Beer Johnston Vector Mechanics Solution 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 Beer Johnston Vector Mechanics Solution 7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Beer Johnston Vector Mechanics Solution 7
 - Personalized Recommendations
 - Beer Johnston Vector Mechanics Solution 7 User Reviews and Ratings

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