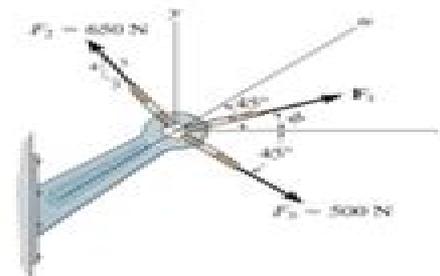


2-46.

If the magnitude of the resultant force acting on the bracket is 600 N, directed along the positive x axis, determine the magnitude of F and its direction ϕ .



SOLUTION

Rectangular Components: By referring to Figs. a and b , the x and y components of F_1 , F_2 , F_3 , and F_R can be written as

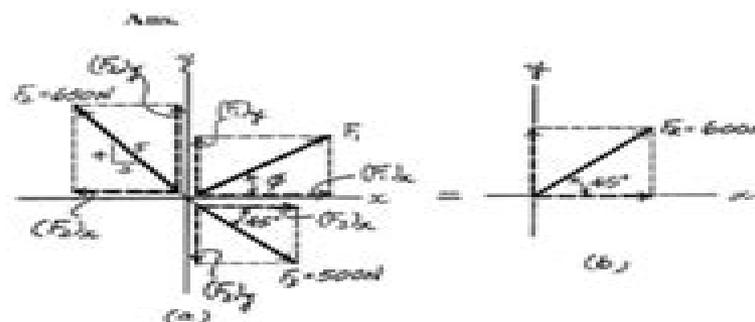
$$\begin{aligned} (F_1)_x &= F_1 \cos \phi & (F_1)_y &= F_1 \sin \phi \\ (F_2)_x &= 650 \left(\frac{3}{5}\right) = 390 \text{ N} & (F_2)_y &= 650 \left(\frac{4}{5}\right) = 520 \text{ N} \\ (F_3)_x &= 500 \cos 45^\circ = 353.55 \text{ N} & (F_3)_y &= 500 \sin 45^\circ = 353.55 \text{ N} \\ (F_R)_x &= 600 \cos 45^\circ = 424.26 \text{ N} & (F_R)_y &= 600 \sin 45^\circ = 424.26 \text{ N} \end{aligned}$$

Resultant Force: Summing the force components algebraically along the x and y axes, we have

$$\begin{aligned} \rightarrow \Sigma (F_R)_x &= \Sigma F_{ix} & 424.26 &= F_1 \cos \phi - 390 + 353.55 & (1) \\ & & F_1 \cos \phi &= 460.71 \\ + \uparrow \Sigma (F_R)_y &= \Sigma F_{iy} & 424.26 &= F_1 \sin \phi + 520 - 353.55 & (2) \\ & & F_1 \sin \phi &= 257.82 \end{aligned}$$

Solving Eqs. (1) and (2), yields

$\phi = 29.2^\circ$ $F_1 = 528 \text{ N}$



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Yicheng Fang



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Table of Contents Chapter 6 Solutions Hibbeler Statics

1. Understanding the eBook Chapter 6 Solutions Hibbeler Statics
 - The Rise of Digital Reading Chapter 6 Solutions Hibbeler Statics
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 6 Solutions Hibbeler Statics
 - 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 Chapter 6 Solutions Hibbeler Statics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 6 Solutions Hibbeler Statics
 - Personalized Recommendations
 - Chapter 6 Solutions Hibbeler Statics User Reviews and Ratings
 - Chapter 6 Solutions Hibbeler Statics and Bestseller Lists
5. Accessing Chapter 6 Solutions Hibbeler Statics Free and Paid eBooks
 - Chapter 6 Solutions Hibbeler Statics Public Domain eBooks
 - Chapter 6 Solutions Hibbeler Statics eBook Subscription Services
 - Chapter 6 Solutions Hibbeler Statics Budget-Friendly Options

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