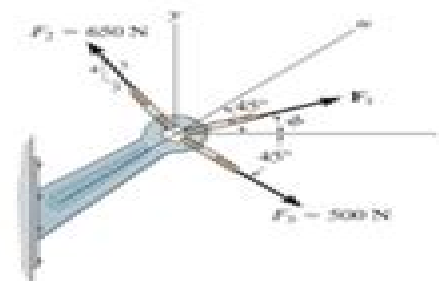


2-46.

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

$$(F_1)_x = F_1 \cos \phi$$

$$(F_1)_y = F_1 \sin \phi$$

$$(F_2)_x = 650 \left(\frac{3}{5} \right) = 390 \text{ N}$$

$$(F_2)_y = 650 \left(\frac{4}{5} \right) = 520 \text{ N}$$

$$(F_3)_x = 500 \cos 45^\circ = 353.55 \text{ N} \quad (F_3)_y = 500 \sin 45^\circ = 353.55 \text{ N}$$

$$(F_R)_x = 600 \cos 45^\circ = 424.26 \text{ N} \quad (F_R)_y = 600 \sin 45^\circ = 424.26 \text{ N}$$

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

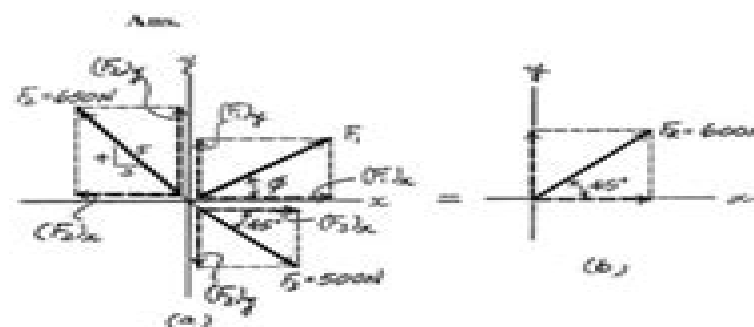
$$\begin{aligned} \rightarrow \Sigma (F_R)_x &= \Sigma F_{ix} & 424.26 &= F_1 \cos \phi - 390 + 353.55 & (1) \\ & & F_1 \cos \phi &= 460.71 \end{aligned}$$

$$\begin{aligned} + \uparrow \Sigma (F_R)_y &= \Sigma F_{iy} & 424.26 &= F_1 \sin \phi + 520 - 353.55 & (2) \\ & & F_1 \sin \phi &= 257.82 \end{aligned}$$

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

$$\phi = 29.2^\circ$$

$$F_1 = 528 \text{ N}$$



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Table of Contents Statics Mechanics Materials 4th Edition

1. Understanding the eBook Statics Mechanics Materials 4th Edition
 - The Rise of Digital Reading Statics Mechanics Materials 4th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Statics Mechanics Materials 4th Edition
 - 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 Statics Mechanics Materials 4th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Statics Mechanics Materials 4th Edition
 - Personalized Recommendations
 - Statics Mechanics Materials 4th Edition User Reviews and Ratings
 - Statics Mechanics Materials 4th Edition and Bestseller Lists

5. Accessing Statics Mechanics Materials 4th Edition Free and Paid eBooks
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 - Statics Mechanics Materials 4th Edition eBook Subscription Services
 - Statics Mechanics Materials 4th Edition Budget-Friendly Options
6. Navigating Statics Mechanics Materials 4th Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Statics Mechanics Materials 4th Edition Compatibility with Devices
 - Statics Mechanics Materials 4th Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Statics Mechanics Materials 4th Edition
 - Highlighting and Note-Taking Statics Mechanics Materials 4th Edition
 - Interactive Elements Statics Mechanics Materials 4th Edition
8. Staying Engaged with Statics Mechanics Materials 4th Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Statics Mechanics Materials 4th Edition
9. Balancing eBooks and Physical Books Statics Mechanics Materials 4th Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Statics Mechanics Materials 4th Edition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Statics Mechanics Materials 4th Edition
 - Setting Reading Goals Statics Mechanics Materials 4th Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Statics Mechanics Materials 4th Edition
 - Fact-Checking eBook Content of Statics Mechanics Materials 4th Edition
 - 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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