

2-45.

If the resultant force acting on the bracket is to be directed along the positive x axis, and the magnitude of F_1 is required to be minimum, determine the magnitudes of the resultant force and F_1 .

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

$$\begin{aligned}(F_1)_x &= F_1 \cos \phi & (F_1)_y &= F_1 \sin \phi \\(F_2)_x &= 650 \left(\frac{3}{5} \right) = 390 \text{ N} & (F_2)_y &= 650 \left(\frac{4}{5} \right) = 520 \text{ N} \\(F_3)_x &= 500 \cos 45^\circ = 353.55 \text{ N} & (F_3)_y &= 500 \sin 45^\circ = 353.55 \text{ N} \\(F_R)_x &= F_R \cos 45^\circ = 0.7071 F_R & (F_R)_y &= F_R \sin 45^\circ = 0.7071 F_R\end{aligned}$$

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

$$\begin{aligned}\rightarrow \Sigma (F_R)_x = \Sigma F_x & \quad 0.7071 F_R = F_1 \cos \phi - 390 + 353.55 & (1) \\+\uparrow \Sigma (F_R)_y = \Sigma F_y & \quad 0.7071 F_R = F_1 \sin \phi + 520 - 353.55 & (2)\end{aligned}$$

Eliminating F_R from Eqs. (1) and (2), yields

$$F_1 = \frac{202.89}{\cos \phi - \sin \phi} \quad (3)$$

The first derivative of Eq. (3) is

$$\frac{dF_1}{d\phi} = \frac{\sin \phi + \cos \phi}{(\cos \phi - \sin \phi)^2} \quad (4)$$

The second derivative of Eq. (3) is

$$\frac{d^2 F_1}{d\phi^2} = \frac{2(\sin \phi + \cos \phi)^2}{(\cos \phi - \sin \phi)^3} + \frac{1}{\cos \phi - \sin \phi} \quad (5)$$

For F_1 to be minimum, $\frac{dF_1}{d\phi} = 0$. Thus, from Eq. (4)

$$\begin{aligned}\sin \phi + \cos \phi &= 0 \\ \tan \phi &= -1 \\ \phi &= -45^\circ\end{aligned}$$

Substituting $\phi = -45^\circ$ into Eq. (5), yields

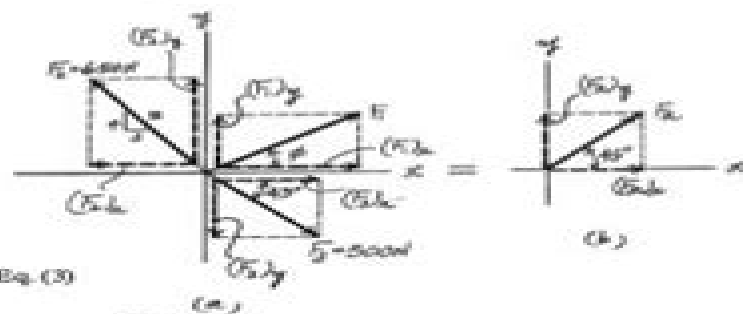
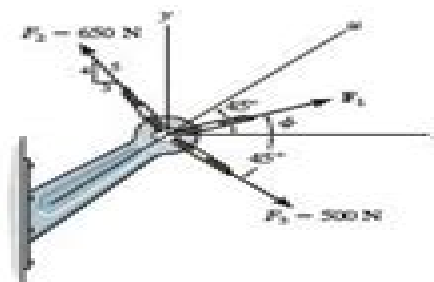
$$\frac{d^2 F_1}{d\phi^2} = 0.7071 > 0$$

This shows that $\phi = -45^\circ$ indeed produces minimum F_1 . Thus, from Eq. (3)

$$F_1 = \frac{202.89}{\cos(-45^\circ) - \sin(-45^\circ)} = 143.47 \text{ N} \approx 143 \text{ N}$$

Substituting $\phi = -45^\circ$ and $F_1 = 143.47 \text{ N}$ into either Eq. (1) or Eq. (2), yields

$$F_R = 91.9 \text{ N}$$



Ans.

Ans.

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Table of Contents Hibbeler Statics 13th Edition Solutions Slideshare

1. Understanding the eBook Hibbeler Statics 13th Edition Solutions Slideshare
 - The Rise of Digital Reading Hibbeler Statics 13th Edition Solutions Slideshare
 - Advantages of eBooks Over Traditional Books
2. Identifying Hibbeler Statics 13th Edition Solutions Slideshare
 - 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 Hibbeler Statics 13th Edition Solutions Slideshare
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hibbeler Statics 13th Edition Solutions Slideshare
 - Personalized Recommendations
 - Hibbeler Statics 13th Edition Solutions Slideshare User Reviews and Ratings
 - Hibbeler Statics 13th Edition Solutions Slideshare and Bestseller Lists
5. Accessing Hibbeler Statics 13th Edition Solutions Slideshare Free and Paid eBooks
 - Hibbeler Statics 13th Edition Solutions Slideshare Public Domain eBooks
 - Hibbeler Statics 13th Edition Solutions Slideshare eBook Subscription Services

- Hibbeler Statics 13th Edition Solutions Slideshare Budget-Friendly Options
- 6. Navigating Hibbeler Statics 13th Edition Solutions Slideshare eBook Formats
 - ePub, PDF, MOBI, and More
 - Hibbeler Statics 13th Edition Solutions Slideshare Compatibility with Devices
 - Hibbeler Statics 13th Edition Solutions Slideshare Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hibbeler Statics 13th Edition Solutions Slideshare
 - Highlighting and Note-Taking Hibbeler Statics 13th Edition Solutions Slideshare
 - Interactive Elements Hibbeler Statics 13th Edition Solutions Slideshare
- 8. Staying Engaged with Hibbeler Statics 13th Edition Solutions Slideshare
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hibbeler Statics 13th Edition Solutions Slideshare
- 9. Balancing eBooks and Physical Books Hibbeler Statics 13th Edition Solutions Slideshare
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hibbeler Statics 13th Edition Solutions Slideshare
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hibbeler Statics 13th Edition Solutions Slideshare
 - Setting Reading Goals Hibbeler Statics 13th Edition Solutions Slideshare
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hibbeler Statics 13th Edition Solutions Slideshare
 - Fact-Checking eBook Content of Hibbeler Statics 13th Edition Solutions Slideshare
 - 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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