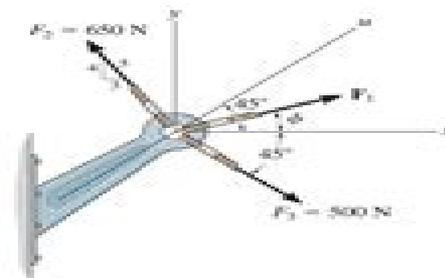


2-45.

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_2 .



SOLUTION

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

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

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

$$\begin{aligned} \downarrow + \Sigma (F_B)_x &= \Sigma F_{2x} & 0.7071 F_B &= F_1 \cos \phi - 390 + 353.55 & (1) \\ \uparrow + \Sigma (F_B)_y &= \Sigma F_{3y} & 0.7071 F_B &= F_1 \sin \phi + 520 - 353.55 & (2) \end{aligned}$$

Eliminating F_B 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

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

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

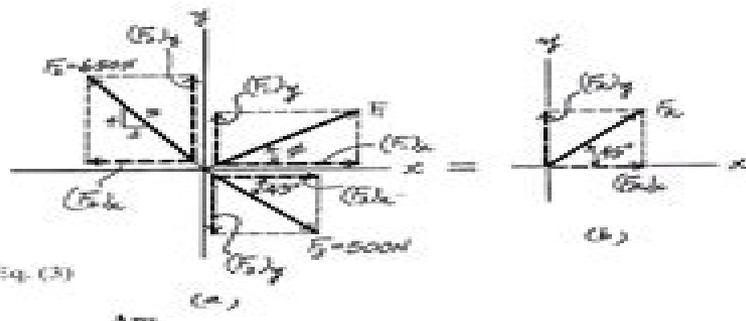
$$\frac{d^2F_1}{d\phi^2} = 0.7071 > 0$$

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

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

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

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



Ans. (a)

Ans.

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R Sandford



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1. Understanding the eBook Statics And Mechanics Of Materials 4th Edition Solutions Pdf
 - The Rise of Digital Reading Statics And Mechanics Of Materials 4th Edition Solutions Pdf
 - Advantages of eBooks Over Traditional Books
2. Identifying Statics And Mechanics Of Materials 4th Edition Solutions Pdf
 - 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 And Mechanics Of Materials 4th Edition Solutions Pdf

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Statics And Mechanics Of Materials 4th Edition Solutions Pdf
 - Personalized Recommendations
 - Statics And Mechanics Of Materials 4th Edition Solutions Pdf User Reviews and Ratings
 - Statics And Mechanics Of Materials 4th Edition Solutions Pdf and Bestseller Lists
- 5. Accessing Statics And Mechanics Of Materials 4th Edition Solutions Pdf Free and Paid eBooks
 - Statics And Mechanics Of Materials 4th Edition Solutions Pdf Public Domain eBooks
 - Statics And Mechanics Of Materials 4th Edition Solutions Pdf eBook Subscription Services
 - Statics And Mechanics Of Materials 4th Edition Solutions Pdf Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
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 - Statics And Mechanics Of Materials 4th Edition Solutions Pdf Enhanced eBook Features
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 - Highlighting and Note-Taking Statics And Mechanics Of Materials 4th Edition Solutions Pdf
 - Interactive Elements Statics And Mechanics Of Materials 4th Edition Solutions Pdf
- 8. Staying Engaged with Statics And Mechanics Of Materials 4th Edition Solutions Pdf
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Statics And Mechanics Of Materials 4th Edition Solutions Pdf
- 9. Balancing eBooks and Physical Books Statics And Mechanics Of Materials 4th Edition Solutions Pdf
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Statics And Mechanics Of Materials 4th Edition Solutions Pdf
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Statics And Mechanics Of Materials 4th Edition Solutions Pdf
 - Setting Reading Goals Statics And Mechanics Of Materials 4th Edition Solutions Pdf

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Statics And Mechanics Of Materials 4th Edition Solutions Pdf
 - Fact-Checking eBook Content of Statics And Mechanics Of Materials 4th Edition Solutions Pdf
 - 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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