2-45.

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

SOLUTION

Rectangular Components: By referring to Figs. a and b, the a and y components of \mathbf{F}_1 , \mathbf{F}_2 , \mathbf{F}_3 , and \mathbf{F}_4 can be written as

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

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

$$(F_2)_x = 650\left(\frac{3}{5}\right) = 390 \text{ N}$$
 $(F_2)_y = 650\left(\frac{4}{5}\right) = 520 \text{ N}$

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

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

$$(P_R)_x = P_R \cos 45^\circ = 0.7071 P_R$$

$$(F_R)_x = F_R \cos 45^\circ = 0.7071 F_R$$
 $(F_R)_y = F_R \sin 45^\circ = 0.7071 F_R$

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

$$\Sigma(F_R)_s = \Sigma F_s$$
:

$$0.7071F_{\rm F} = F_1 \cos \phi - 390 + 353.55$$

$$+ \dagger \Sigma(F_R)_* = \Sigma F_*$$
:

$$\pm_{s} \Sigma(F_{R})_{s} = \Sigma F_{s};$$

$$0.7071F_{R} = F_{1} \cos \phi - 390 + 353.55$$

$$+ \uparrow \Sigma(F_{R})_{s} = \Sigma F_{s};$$

$$0.7071F_{R} = F_{1} \sin \phi + 520 - 353.55$$
(2)

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

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

The first derivative of Eq. (3) is

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

The second derivative of Eq. (3) is

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

For \mathbf{F}_1 to be minimum, $\frac{dF_1}{d\phi} = 0$. Thus, from Eq. (4)

$$\sin \phi + \cos \phi = 0$$

$$\tan \phi = -1$$

$$\phi = -45^\circ$$

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 $F_1 = 143.47$ N into either Eq. (1) or Eq. (2), yields

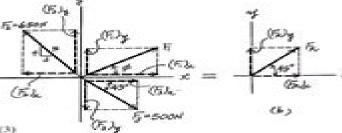
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 $E_{\rm v} = 650~{\rm N}$

- 5000 NO

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R. C. Hibbeler, 2003

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