2-45.

If the resultant force acting on the bracket is to be directed along the positive a axis, and the magnitude of V, is required to be ministow, determine the magnitudes of the resultant force and Fa-

#### SOLUTION

Rectangular Components: By referring to Figs. a and b, the x and y components of F1. F2. F3. and F4 can be written as

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

$$(F_1)_{\alpha} = F_1 \sin \phi$$

$$(F_2)_+ = 650\left(\frac{3}{5}\right) = 390.5$$

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

$$(F_3)_s = 500 \cos 45^\circ = 353.55 \text{ N}$$
  $(F_3)_p = 500 \sin 45^\circ = 353.55 \text{ N}$ 

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

Resultant Force: Summing the force components algebraically along the x and w aroes, were flavored

$$\perp \Sigma(F_R)_a = \Sigma F_a$$
:

$$\pm \Sigma(F_R)_s = \Sigma F_s;$$
 0.7071 $F_R = F_1 \cos \phi - 390 + 353.55$  (1)  
  $+ \uparrow \Sigma(F_R)_s = \Sigma F_s;$  0.7071 $F_R = F_1 \sin \phi + 520 - 353.55$  (2)

$$+1 \times (F_{\bullet})_{\bullet} = \times F_{\bullet}$$

$$7071F_R = F_1 \sin \phi + 520 - 353.55$$
 (2)

Eliminating  $F_H$  from Eqs. (1) and (2), yields

$$F_{\pm} = \frac{202.89}{\cos \phi - \sin \phi}$$
(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

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

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

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

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

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

Autos.

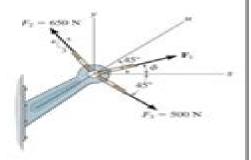
(5)

Frank Book

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

$$F_{R} = 91.9 \text{ N}$$

America



# **Statics Chapter Solutions**

Jiyuan Zhang



Unveiling the Magic of Words: A Review of "Statics Chapter Solutions"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually aweinspiring. Enter the realm of "Statics Chapter Solutions," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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