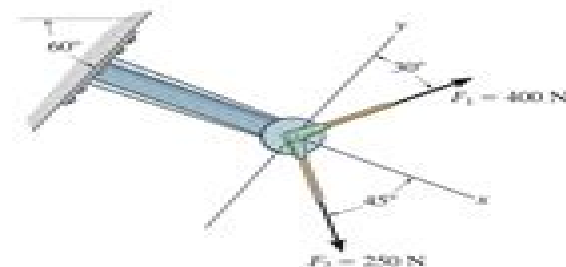


2-38.

Determine the magnitude of the resultant force and its direction measured counterclockwise from the positive x axis.



SOLUTION

Rectangular Components: By referring to Fig. a , the x and y components of $\mathbf{F}_1$ and $\mathbf{F}_2$ can be written as

$$(F_1)_x = 400 \sin 30^\circ = 200 \text{ N} \quad (F_1)_y = 400 \cos 30^\circ = 346.41 \text{ N}$$

$$(F_2)_x = 250 \cos 45^\circ = 176.78 \text{ N} \quad (F_2)_y = 250 \sin 45^\circ = 176.78 \text{ N}$$

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

$$\rightarrow + \Sigma (F_R)_x = \Sigma F_{x_i}; \quad (F_R)_x = 200 + 176.78 = 376.78 \text{ N}$$

$$+ \uparrow \Sigma (F_R)_y = \Sigma F_{y_i}; \quad (F_R)_y = 346.41 - 176.78 = 169.63 \text{ N} \uparrow$$

The magnitude of the resultant force $\mathbf{F}_R$ is

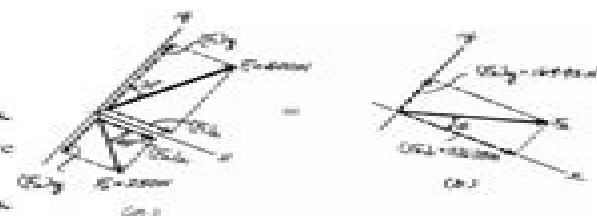
$$F_R = \sqrt{(F_R)_x^2 + (F_R)_y^2} = \sqrt{376.78^2 + 169.63^2} = 413 \text{ N}$$

The direction angle θ of $\mathbf{F}_R$, Fig. b , measured counterclockwise from the positive axis, is

$$\theta = \tan^{-1} \left[\frac{(F_R)_y}{(F_R)_x} \right] = \tan^{-1} \left(\frac{169.63}{376.78} \right) = 24.2^\circ$$

Ans.

Ans.



Statics Mechanics Of Materials Hibbeler Solutions Manual

R. C. Hibbeler



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