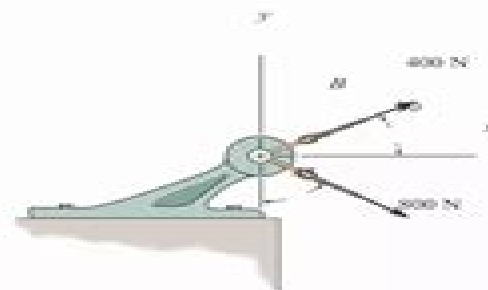


1-25.

Determine the magnitude of the resultant force and its direction, measured clockwise from the positive  $x$  axis.



### Solution

**Scalar Notation.** Summing the force components along  $x$  and  $y$  axes by referring to Fig. *a*,

$$\Sigma (F_x)_x = \Sigma F_x; \quad (F_x)_x = 400 \cos 30^\circ + 800 \sin 45^\circ = 912.10 \text{ N} \quad \Sigma$$

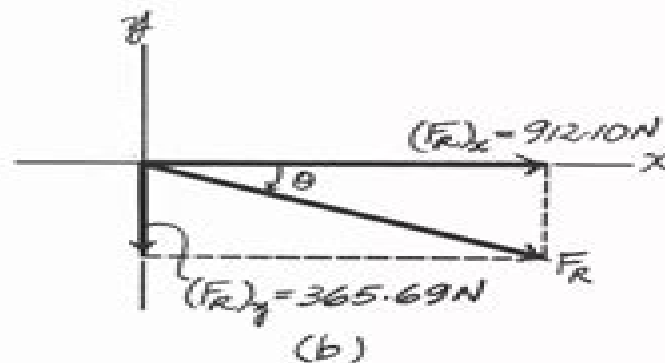
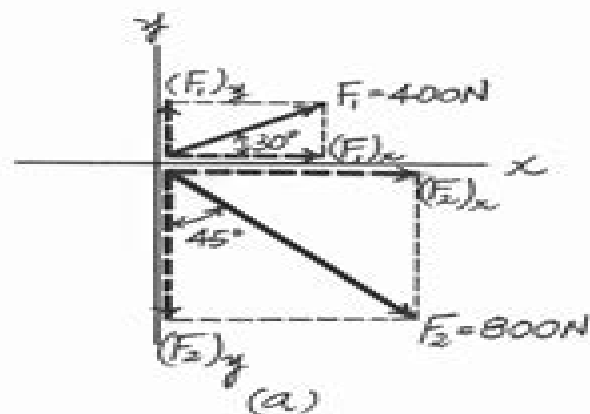
$$+\circ (F_x)_y = \Sigma F_y; \quad (F_x)_y = 400 \sin 30^\circ - 800 \cos 45^\circ = -365.69 \text{ N} = 365.69 \text{ N} \quad \Sigma$$

Referring to Fig. *b*, the magnitude of the resultant force is

$$F_R = \sqrt{(F_x)_x^2 + (F_x)_y^2} = \sqrt{912.10^2 + 365.69^2} = 982.67 \text{ N} = 983 \text{ N} \quad \text{Ans.}$$

And its directional angle  $\theta$  measured clockwise from the positive  $x$  axis is

$$\theta = \tan^{-1} \left( \frac{(F_x)_y}{(F_x)_x} \right) = \tan^{-1} \left( \frac{365.69}{912.10} \right) = 21.84^\circ = 21.8^\circ \quad \text{Ans.}$$



Ans:

# Mechanics For Engineers Statics 5th Edition Solutions Manual

**Judd E. Hollander**



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Cartea de fa este dedicat primei ramuri a mecanicii statica oferind o prezentare clar i cuprinz toare a no iunilor i pun nd accentul pe n elegerea conceptelor fundamentale i pe aplicarea lor n diverse contexte practice Autorii i au propus s fac studiul staticii c t mai accesibil i u or de n eles pentru cititori indiferent de nivelul lor de experien n domeniul mecanicii Stilul de scriere este clar i detaliat astfel nc t cititorii s poat urm ri u or conceptele de baz i s n eleag no iunile prezentate f r preten ia de a fi familiariza i cu terminologia sau cu matematica avansat Exemplele practice i grafica asociat au fost inserate cu aten

ie pentru a ilustra conceptele i pentru a face con inutul c t mai intuitiv Cartea con ine un num r foarte mare de probleme rezolvate si propuse de diverse grade de dificultate unele mai accesibile autorii au avut n vedere faptul c n prezent preg tirea n domeniul matematicii a multor studen i este deficitar iar altele necesit nd cuno tin e aprofundate din domeniile geometriei algebrei i ale metodelor numerice Lucrarea este structurat pe zece capitole ncep nd cu introducerea n conceptele de baz ale mecanicii i abord nd apoi gradual fiecare aspect specific al staticii echilibrul punctului material geometria maselor i centrele de mas echilibrul solidului rigid echilibrul sistemelor de puncte materiale i de solide rigide echilibrul firelor Pentru a asigura o n elegere solid a acestor subiecte autorii au inclus la nceputul lucr rii un capitol dedicat calculului vectorial i calculului matriceal cu aplica ii n mecanica static precum i un capitol care trateaz reducerea sistemelor de for e

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