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,

$$\hat{\mathbf{S}}(F_8)_c = \Sigma F_i; \quad (F_8)_c = 400 \cos 30^\circ + 300 \sin 45^\circ = 912.10 \,\text{N/S}$$

$$+c(F_B)_r = \Sigma F_c$$
; $(F_B)_r = 400 \sin 30^\circ - 800 \cos 45^\circ = -365.69 N = 365.69 NT$

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

$$F_{g} = 24F_{g}r_{1}^{2} + 4F_{g}r_{2}^{2} = 2912\cdot10^{2} + 365\cdot69^{2} = 982.67 \text{ N} = 983 \text{ N}$$
 Ans.

And its directional angle u measured clockwise from the positive x axis is

$$u = \tan^{-1} \epsilon \frac{(F_R)_c}{(F_R)_b} \epsilon = \tan^{-1} a \frac{365.69}{912.10} b = 21.84^\circ = 21.8^\circ$$
 Ans.





Acres

Mechanics For Engineers Statics 5th Edition Solutions Manual

Lauren Gardner

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