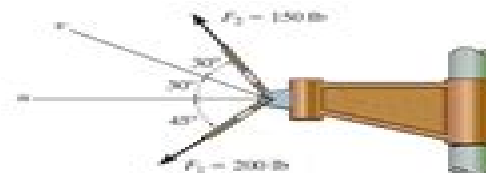


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2-6. Resolve  $F_2$  into components along the  $u$  and  $v$  axes, and determine the magnitudes of these components.



The parallelogram law of addition and the triangular rule are shown in Figs. *a* and *b*, respectively.

Applying the law of sines to Fig. *b*,

$$\frac{F_u}{\sin 30^\circ} = \frac{150}{\sin 30^\circ} \quad F_u = 150 \text{ lb} \quad \text{Ans.}$$

$$\frac{F_v}{\sin 120^\circ} = \frac{150}{\sin 30^\circ} \quad F_v = 260 \text{ lb} \quad \text{Ans.}$$



# Engineering Mechanics Statics 12th Edition Chapter 12 Solutions

**R. C. Hibbeler**



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