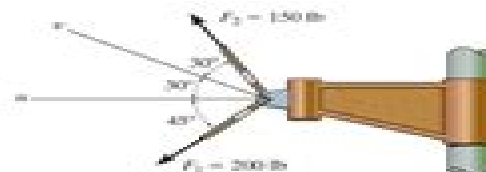


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2-6. Resolve F_2 into components along the u and v axes, and determine the magnitudes of these components.

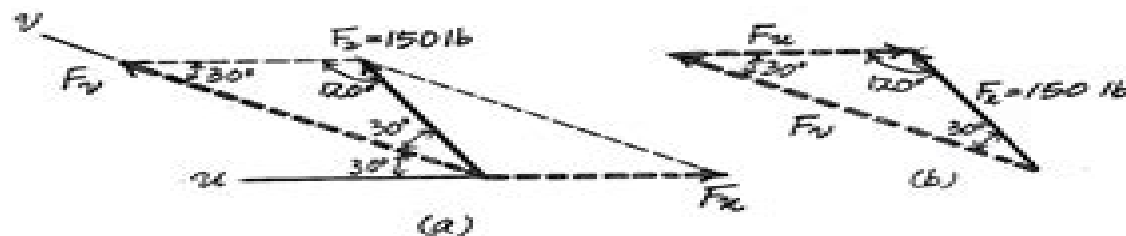


The parallelogram law of addition and the triangular rule are shown in Figs. *a* and *b*, respectively.

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 Dynamics Solution Manual 12th

Albert Edward Seaton



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