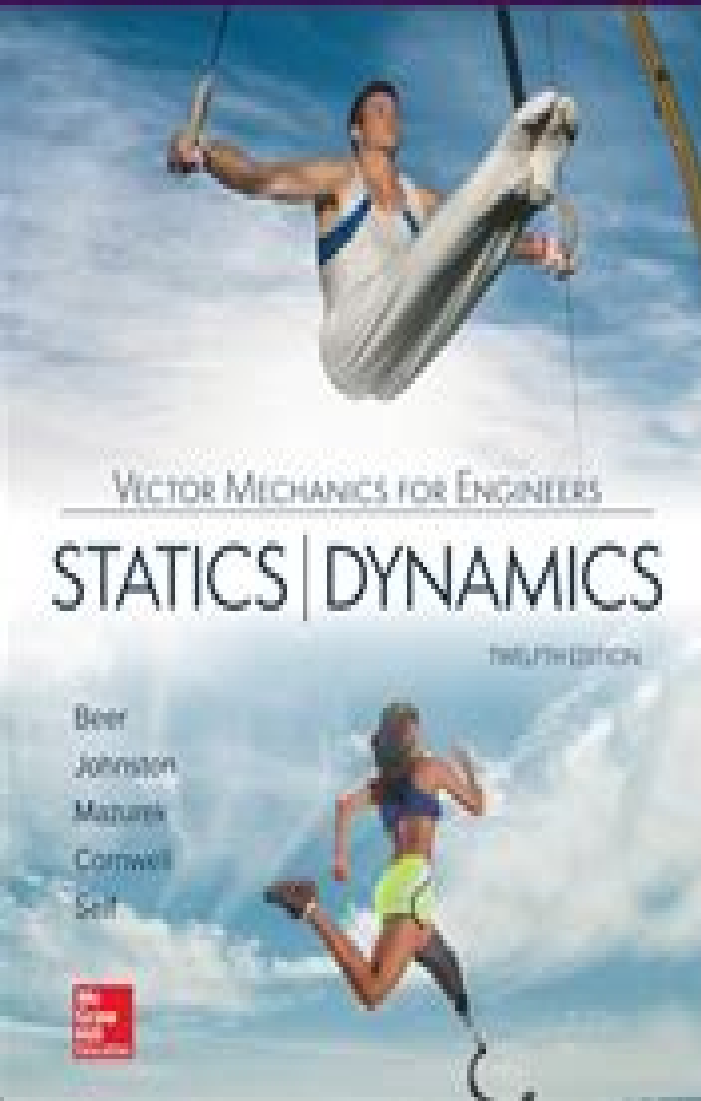


# Vector Mechanics For Engineers

## Statics (Solutions!!) Chapter-2

Problem:  
2.31-2.60



### PROBLEM 2.33

Determine the resultant of the three forces of Problem 2.22.

**PROBLEM 2.22** Determine the  $x$  and  $y$  components of each of the forces shown.

### SOLUTION

Force	$x$ -Comp. (lb)	$y$ -Comp. (lb)
40 lb	+30.00	+34.64
50 lb	+50.00	+21.14
60 lb	+54.38	+29.56
$R_x$	+134.38	+85.32

$$\mathbf{R} = R_x \mathbf{i} + R_y \mathbf{j}$$

$$= (+134.38 \text{ lb})\mathbf{i} + (+85.32 \text{ lb})\mathbf{j}$$

$$\tan \alpha = \frac{R_y}{R_x}$$

$$\tan \alpha = \frac{85.32 \text{ lb}}{134.38 \text{ lb}}$$

$$\tan \alpha = 0.63500$$

$$\alpha = 32.542^\circ$$

$$\mathbf{R} = \frac{85.32 \text{ lb}}{\sin 32.542^\circ}$$

$$= 161.1 \text{ lb}$$



$$\mathbf{R} = 161.1 \text{ lb} \angle 32.54^\circ$$



# Engineering Mechanics Ii Chapter 2 Solution

**S Marginson**



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