

Solution Manual for Engineering Mechanics Dynamics 13th Edition by Hibbeler

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13-1.

The 6-lb particle is subjected to the action of its weight and forces $\mathbf{F}_1 = 52\mathbf{i} + 6\mathbf{j} - 28\mathbf{k}$ lb, $\mathbf{F}_2 = 5t^2\mathbf{i} - 4t\mathbf{j} - 14t\mathbf{k}$ lb, and $\mathbf{F}_3 = 5 - 28t$ lb, where t is in seconds. Determine the distance the ball is from the origin 2 s after being released from rest.

SOLUTION

$$\Sigma \mathbf{F} = m\mathbf{a}; \quad (2t + 6)\mathbf{j} + (t^2 - 4t - 14)\mathbf{k} - 2t\mathbf{i} - 6\mathbf{k} = \frac{6}{32.2} (a_x\mathbf{i} + a_y\mathbf{j} + a_z\mathbf{k})$$

Equating components:

$$\frac{6}{32.2} 5a_x = t^2 - 2t + 2 \quad \frac{6}{32.2} 5a_y = -4t + 6 \quad \frac{6}{32.2} 5a_z = -2t - 7$$

Since $d\mathbf{v} = \mathbf{a} dt$, integrating from $v = 0$, $t = 0$, yields

$$\frac{6}{32.2} 5v_x = \frac{1}{3} t^3 - t^2 + 2t \quad \frac{6}{32.2} 5v_y = -2t^2 + 6t \quad \frac{6}{32.2} 5v_z = -t^2 - 7t$$

$$\frac{6}{32.2} 5v_x = \frac{1}{3} t^3 - t^2 + 2t \quad \frac{6}{32.2} 5v_y = -2t^2 + 6t \quad \frac{6}{32.2} 5v_z = -t^2 - 7t$$

$$\frac{6}{32.2} 5v_x = \frac{1}{3} t^3 - t^2 + 2t \quad \frac{6}{32.2} 5v_y = -2t^2 + 6t \quad \frac{6}{32.2} 5v_z = -t^2 - 7t$$

When $t = 2$ s then, $v_x = 14.32$ ft/s, $v_y = 35.76$ ft/s

Then

This is the
and courses part



Solution Manual Engineering Mechanics Dynamics 13th

Takaji Kokusho



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