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**•12–8.** A particle is moving along a straight line with the acceleration  $a = (12t - 3t^{3/2}) \text{ ft/s}^2$ , where  $t$  is in seconds. Determine the velocity and the position of the particle as a function of time. When  $t = 0$ ,  $v = 0$  and  $s = 15 \text{ ft}$ .

**Velocity:**

$$\begin{aligned} (+\curvearrowright) \quad dv &= a \, dt \\ \int_0^v dv &= \int_0^t (12t - 3t^{3/2}) \, dt \\ v|_0^v &= (6t^2 - 2t^{5/2}) \Big|_0^t \\ v &= (6t^2 - 2t^{5/2}) \text{ ft/s} \end{aligned}$$

Ans.

**Position:** Using this result and the initial condition  $s = 15 \text{ ft}$  at  $t = 0 \text{ s}$ ,

$$\begin{aligned} (+\curvearrowright) \quad ds &= v \, dt \\ \int_{15}^s ds &= \int_0^t (6t^2 - 2t^{5/2}) \, dt \\ s|_{15}^s &= \left( 2t^3 - \frac{4}{7} t^{7/2} \right) \Big|_0^t \\ s &= \left( 2t^3 - \frac{4}{7} t^{7/2} + 15 \right) \text{ ft} \end{aligned}$$

Ans.

**12–6.** A ball is released from the bottom of an elevator which is traveling upward with a velocity of  $6 \text{ ft/s}$ . If the ball strikes the bottom of the elevator shaft in  $3 \text{ s}$ , determine the height of the elevator from the bottom of the shaft at the instant the ball is released. Also, find the velocity of the ball when it strikes the bottom of the shaft.

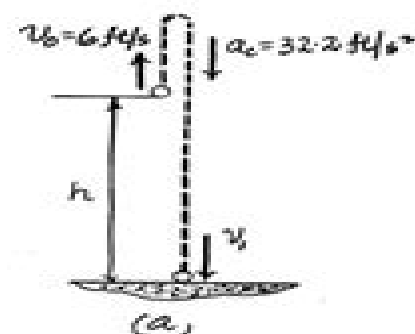
**Kinematics** When the ball is released, its velocity will be the same as the elevator at the instant of release. Thus,  $v_0 = 6 \text{ ft/s}$ . Also,  $t = 3 \text{ s}$ ,  $s_0 = 0$ ,  $s = -h$ , and  $a_c = -32.2 \text{ ft/s}^2$ .

$$\begin{aligned} (+\uparrow) \quad s &= s_0 + v_0 t + \frac{1}{2} a_c t^2 \\ -h &= 0 + 6(3) + \frac{1}{2} (-32.2)(3^2) \\ h &= 127 \text{ ft} \end{aligned}$$

Ans.

$$\begin{aligned} (+\uparrow) \quad v &= v_0 + a_c t \\ v &= 6 + (-32.2)(3) \\ &= -90.6 \text{ ft/s} = 90.6 \text{ ft/s} \quad \downarrow \end{aligned}$$

Ans.



# Hibbeler Dynamics Solutions Manual 12

**Minjie Lin**



## **Hibbeler Dynamics Solutions Manual 12:**

## **Hibbeler Dynamics Solutions Manual 12** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Hibbeler Dynamics Solutions Manual 12**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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