

•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 ft/s . If the ball strikes the bottom of the elevator shaft in 3 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.

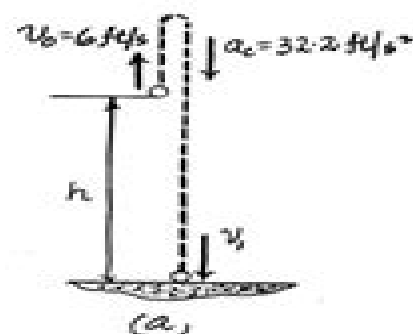
Kinematics When the ball is released, its velocity will be the same as the elevator at the instant of release. Thus, $v_0 = 6 \text{ ft/s}$. Also, $t = 3 \text{ s}$, $s_0 = 0$, $s = -h$, and $a_c = -32.2 \text{ ft/s}^2$.

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

Ans.

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

Ans.



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Table of Contents Hibbeler Dynamics Solutions Manual 12

1. Understanding the eBook Hibbeler Dynamics Solutions Manual 12
 - The Rise of Digital Reading Hibbeler Dynamics Solutions Manual 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Hibbeler Dynamics Solutions Manual 12
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hibbeler Dynamics Solutions Manual 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hibbeler Dynamics Solutions Manual 12
 - Personalized Recommendations
 - Hibbeler Dynamics Solutions Manual 12 User Reviews and Ratings
 - Hibbeler Dynamics Solutions Manual 12 and Bestseller Lists
5. Accessing Hibbeler Dynamics Solutions Manual 12 Free and Paid eBooks

- Hibbeler Dynamics Solutions Manual 12 Public Domain eBooks
- Hibbeler Dynamics Solutions Manual 12 eBook Subscription Services
- Hibbeler Dynamics Solutions Manual 12 Budget-Friendly Options
- 6. Navigating Hibbeler Dynamics Solutions Manual 12 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hibbeler Dynamics Solutions Manual 12 Compatibility with Devices
 - Hibbeler Dynamics Solutions Manual 12 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hibbeler Dynamics Solutions Manual 12
 - Highlighting and Note-Taking Hibbeler Dynamics Solutions Manual 12
 - Interactive Elements Hibbeler Dynamics Solutions Manual 12
- 8. Staying Engaged with Hibbeler Dynamics Solutions Manual 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hibbeler Dynamics Solutions Manual 12
- 9. Balancing eBooks and Physical Books Hibbeler Dynamics Solutions Manual 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hibbeler Dynamics Solutions Manual 12
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hibbeler Dynamics Solutions Manual 12
 - Setting Reading Goals Hibbeler Dynamics Solutions Manual 12
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hibbeler Dynamics Solutions Manual 12
 - Fact-Checking eBook Content of Hibbeler Dynamics Solutions Manual 12
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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