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**•12-8.** A particle is moving along a straight line with the acceleration  $a = (12t - 2t^{3/2}) \text{ ft/s}^2$ , 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:**

$$(+\curvearrowright) \quad dv = a \, dt$$

$$\int_0^v dv = \int_0^t (12t - 2t^{3/2}) \, dt$$

$$v_0^v = (6t^2 - 2t^{5/2}) \Big|_0^v$$

$$v = (6t^2 - 2t^{5/2}) \text{ ft/s}$$

Ans.

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

$$(+\curvearrowright) \quad ds = v \, dt$$

$$\int_{15}^s ds = \int_0^t (6t^2 - 2t^{5/2}) \, dt$$

$$s_0^s = \left( 2t^3 - \frac{4}{7} t^{7/2} \right) \Big|_{15}^s$$

$$s = \left( 2t^3 - \frac{4}{7} t^{7/2} + 15 \right) \text{ ft}$$

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  $a_y = -32.2 \text{ ft/s}^2$ .

$$(+\uparrow) \quad s = s_0 + v_0 t + \frac{1}{2} a_y t^2$$

$$-h = 0 + 6(3) + \frac{1}{2} (-32.2)(3^2)$$

$$h = 127 \text{ ft}$$

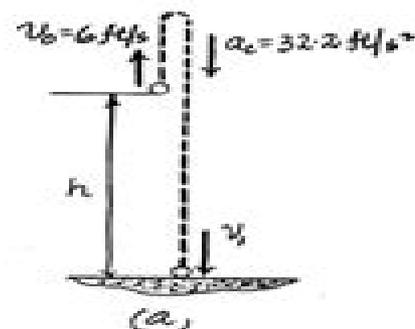
Ans.

$$(+\uparrow) \quad v = v_0 + a_y t$$

$$v = 6 + (-32.2)(3)$$

$$= -90.6 \text{ ft/s} = 90.6 \text{ ft/s} \quad \downarrow$$

Ans.



# Hibbeler Engineering Mechanics Dynamics 12th Edition Solutions

**Michael Seilmaier**



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*Theory of Gyroscopic Effects for Rotating Objects* Ryspek Usubamatov,2022-06-30 This book highlights an analytical solution for the dynamics of axially rotating objects It also presents the theory of gyroscopic effects explaining their physics and using mathematical models of Euler s form for the motion of movable spinning objects to demonstrate these effects The major themes and approaches are represented by the spinning disc and the action of the system of interrelated inertial torques generated by the centrifugal and Coriolis forces as well as the change in the angular momentum The interrelation of inertial torques is based on the dependency of the angular velocities of the motions of the spinning objects around axes by the principle of mechanical energy conservation These kinetically interrelated torques constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects of different designs like rings cones spheres paraboloids propellers etc Lastly the mathematical models for the gyroscopic effects are validated by practical tests The 2nd edition became necessary due to new development and corrections of mathematical expressions It contains new chapters about the Tippe top inversion and inversion of the spinning object in an orbital flight and the boomerang aerodynamics

**700 Solved Problems In Vector Mechanics for Engineers: Dynamics** Joseph F. Shelley,1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill

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