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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:

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

Ans.

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

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

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.

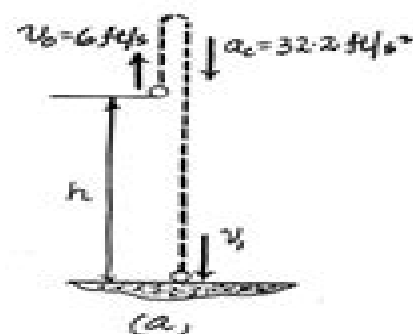
Kinematics When the ball is released, its velocity will be the same as the elevator at the instant of release. Thus, $v_0 = 6 \text{ ft/s}$. Also, $t = 3 \text{ s}$, $s_0 = 0$, $s = -h$, and $a_c = -32.2 \text{ ft/s}^2$.

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

Ans.

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

Ans.



Solution Manual To Engineering Mechanics Dynamics 12th

Andrew Pytel, Jaan Kiusalaas



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Seismic Performance of Soil-Foundation-Structure Systems Nawawi Chouw, Rolando P. Orense, Tam Larkin, 2017-08-25 Seismic Performance of Soil Foundation Structure Systems presents invited papers presented at the international workshop University of Auckland New Zealand 21 22 November 2016 This international workshop brought together outstanding work in earthquake engineering that embraces a holistic consideration of soil foundation structure systems For example the diversity of papers in this volume is represented by contributions from the fields of shallow foundation in liquefiable soil spatially distributed lifelines bridges clustered structures see photo on front cover sea floor seismic motion multi axial ground excitation deep foundations soil foundation structure fluid interaction liquefaction induced settlement and uplift with SFSI A fundamental knowledge gap is manifested by the isolated manner geotechnical and structural engineers work A holistic consideration of soil foundation structures systems is only possible if civil engineers work collaboratively to the mutual benefit of all disciplines Another gap occurs by the retarded application of up to date research findings in engineering design practices Seismic Performance of Soil Foundation Structure Systems is the outcome from the recognized need to close this gap since it has been observed that a considerable delay exists between published research findings and application of the principles revealed by the research Seismic Performance of Soil Foundation Structure Systems will be helpful in developing more understanding of the complex nature of responses these systems present under strong earthquakes and will assist engineers in closing the gaps identified above

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