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•12–1. A car starts from rest and with constant acceleration achieves a velocity of when it travels a distance of 200 m. Determine the acceleration of the car and the time required.
15 m>s

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Solution: Assume that the elevator never reaches its maximum speed. Guesses $t_1 = 1\text{ s}$ $t_2 = 2\text{ s}$ $v_{\max} = 1\text{ ft/s}$ $h = 1\text{ ft}$ Given $v_{\max} = a t_1$. Given: $d = 80\text{ ft}$ $t_1 = 1\text{ s}$ $g = 32.2\text{ ft/s}^2$
Solution: $a_A = g$ $v_A = gt_1$ $s_A = \frac{1}{2}gt_1^2$ $a_B = g$ $v_B = gt_2$ $s_B = \frac{1}{2}gt_2^2$
(t)? 12. Time to hit for each particle. $t_A = 2.229\text{ s}$

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Determine the distance A freight train travels at $v_0 = 1\text{ e}$ traveled in time t_1 , and the acceleration at this time. 2
Engineering Mechanics Dynamics Chapter 12 Given: $ft = v_0 = 60\text{ b}$ 1 s $t_1 = 3\text{ s}$ Solution: $(v(t) = v_0 + e) d(t) = 123.0\text{ ft}$ $d(t) = v(t) dt$ $d v(t) dt = a(t) a(t) = 2.99\text{ ft}^2/\text{s}$ Problem The position of a particle along a straight line is given $sp = at^3 + bt^2$

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ct. Determine its maximum acceleration and maximum velocity during the time interval t_0 to t_f .

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SOLUTION Velocity:The velocity of particles A and B can be determined using Eq. 12-2. $dv_A = a_A dt$ $v_A = \int_0^t (6t - 3) dt$

$v_A = 3t^2 - 3t$ $dv_B = a_B dt$ $v_B = \int_0^t (12t^2 - 8) dt$ $v_B = 4t^3 - 8t$

The times when particle A stops are $3t^2 - 3t = 0$ $t = 0$ s and $t = 1$ s

The times when particle B stops are $4t^3 - 8t = 0$ $t = 0$ s and $t = 2$ s

Position:The position of particles A and B can be determined using Eq. 12-1. $ds_A = v_A dt$ $s_A = \int_0^t (3t^2 - 3t) dt$

$s_A = t^3 - \frac{3}{2}t^2$ $ds_B = v_B dt$ $s_B = \int_0^t (4t^3 - 8t) dt$

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Ans. $t = 26.7$ s $15 = 0 + 0.5625t^2$ $A :+ B v = v_0 + at$ $a_c = 0.5625$ m/s² $15^2 = 0^2 + 2ac(200 - 0)$ $A :+ B v^2 = v_0^2 + 2ac(s - s_0)$ $s = 200$ m $s_0 = 0$ $v = 15$ m/s $v_0 = 0$ •12–1.

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