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with constant acceleration
achieves a velocity of when it
travels a distance of 200 m.
Determine the acceleration of the

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 $m > s$

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Solution: Assume that the elevator never reaches its maximum speed. Guesses $t_1 = 1s$
 $t_2 = 2s$ $v_{max} = 1 \text{ ft/s}$ $h = 1ft$
Given $v_{max} = a t_1$. Given: $d = 80 \text{ ft}$
 $t_1 = 1s$ $g = 32.2 \text{ ft/s}^2$ = Solution:

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$$a_A = g \quad v_A = gt \quad s_A = \frac{1}{2}gt^2 \quad a_B = g$$

$$v_B = gt \quad t() - 1 \quad s_B = \frac{1}{2}gt^2 = ()t^2 - 12.$$

Time to hit for each particle. t_A^2

$$d/g = t_A = 2.229 \text{ s}$$

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Determine the distance A freight
train travels at v_0 traveled
in time t_1 , and the acceleration at
this time. 2 Engineering

Mechanics Dynamics Chapter 12

Given: $t_1 = 3 \text{ s}$ $v_0 = 60 \text{ ft/s}$

Solution: $(v(t) - v_0) = a(t) dt$

$$123.0 \text{ ft} = \int_0^{t_1} v(t) dt = \int_0^{t_1} (v_0 + at) dt$$

$$a(t) = a(t_1) = 2.99 \text{ ft/s}^2$$

Problem
The position of a particle along a
straight line is given $s = 3bt^2 + ct$.

Determine its maximum
acceleration and maximum
velocity during the time interval

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SOLUTION Velocity: The velocity of particles A and B can be determined using Eq. 12-2. $dv_A = a_A dt$ $v_A = \int_0^t (6t - 3) dt = 3t^2 - 3t$ $dv_B = a_B dt$ $v_B = \int_0^t (12t^2 - 8) dt = 4t^3 - 8t$ 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. $ds_A = v_A dt$ $s_A = \int_0^t (3t^2 - 3t) dt = t^3 - \frac{3}{2}t^2$ $ds_B = v_B dt$ $s_B = \int_0^t (4t^3 - 8t) dt = t^4 - 4t^2$...

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1 Kinematics: , , , and . Ans. Ans.t

= 26.7 s 15 = 0 + 0.5625t A :+ B

v = v0 + act ac = 0.5625 m>s2

152 = 02 + 2ac(200 - 0) A :+ B

v2 = v0 2 + 2ac(s - s0) s = 200

ms0 = 0v = 15 m>sv0 = 0 □12-1.

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