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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 $t_1 = 1\text{ s}$ $t_2 = 2\text{ s}$ $v_{\text{max}} = 1\text{ ft/s}$ $h = 1\text{ ft}$ Given $v_{\text{max}} = a_1 t_1$. Given: $d = 80\text{ ft}$ $t_1 = 1\text{ s}$ $g = 32.2\text{ ft/s}^2$ = Solution: $a_A = g$ $v_A = gt$ $s_A = \frac{1}{2}gt^2$ $a_B = g$ $v_B = gt$ $t_1 = 1\text{ s}$ $s_B = \frac{1}{2}gt_1^2 = 16.1\text{ ft}$ 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 traveled in time t_1 , and the acceleration at

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this time. 2 Engineering Mechanics Dynamics Chapter 12 Given: $v_0 = 60 \text{ ft/s}$, $t_1 = 3 \text{ s}$ Solution: $v(t) = v_0 + at$ $d(t) = v_0 t + \frac{1}{2}at^2$ 123.0 ft $d(t) = v(t) dt$ $d v(t) dt = a(t) dt$ $a(t) = a(t_1) = 2.99 \text{ ft/s}^2$ Problem The position of a particle along a straight line is given by $s = at^3 + bt^2 + ct$. 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. $dv_A = a_A dt$ $v_A = \int_0^t (6t - 3) dt = 3t^2 - 3t$ $dv_B = a_B dt$ $v_B = \int_0^t (12t^2 - 8) dt = 4t^3 - 8t$ The times when particle A stops are $3t^2 - 3t = 0$ $t = 0 \text{ s}$ and $t = 1 \text{ s}$ The times when particle B stops are $4t^3 - 8t = 0$ $t = 0 \text{ s}$ and $t = 2 \text{ s}$ 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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Chapter 12 dynamics rc hibbler 1. 1 Kinematics: $v = v_0 + at$ $ac = 0.5625 \text{ m/s}^2$ $152 = 0^2 + 2ac(200 - 0)$ $A :+ B v^2 = v_0^2 + 2ac(s - s_0)$ $s = 200 \text{ m}$ $s_0 = 0$ $v = 15 \text{ m/s}$ $v_0 = 0$ •12-1.

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Engineering Mechanics Dynamics 12 Edition BY R.C Hibbeler BOOK Hibbeler currently teaches both civil and mechanical engineering courses at the University of Louisiana, Lafayette. In the past he has taught at the University of Illinois at Urbana, Youngstown State University, Illinois Institute of Technology, and Union College.

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