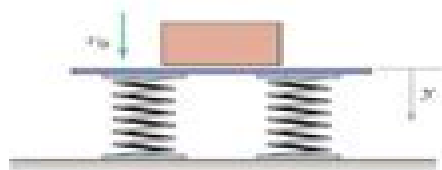


- 2/35** The body falling with speed v_0 strikes and maintains contact with the platform supported by a nest of springs. The acceleration of the body after impact is $a = g - cy$, where c is a positive constant and y is measured from the original platform position. If the maximum compression of the springs is observed to be y_m , determine the constant c .

$$\text{Ans. } c = \frac{v_0^2 + 2gy_m}{y_m^2}$$



Problem 2/35

- 2/36** Particle 1 is subjected to an acceleration $a = -kt$, particle 2 is subjected to $a = -kt$, and particle 3 is subjected to $a = -kt$. All three particles start at the origin $s = 0$ with an initial velocity $v_0 = 10$ m/s at time $t = 0$, and the magnitude of k is 0.1 for all three particles (note that the units of k vary from case to case). Plot the position, velocity, and acceleration versus time for each particle over the range $0 \leq t \leq 10$ s.

- 2/37** A self-propelled vehicle of mass m whose engine delivers constant power P has an acceleration $a = P/(mv)$ where all frictional resistance is neglected. Determine expressions for the distance s traveled and the corresponding time t required by the vehicle to increase its speed from v_1 to v_2 .

$$\text{Ans. } s = \frac{m}{2P} (v_2^3 - v_1^3)$$

$$t = \frac{m}{2P} (v_2^2 - v_1^2)$$

- 2/38** A certain lake is proposed as a landing area for large jet aircraft. The touchdown speed of 100 mi/hr upon contact with the water is to be reduced to 20 mi/hr in a distance of 1500 ft. If the deceleration is proportional to the square of the velocity of the aircraft through the water, $a = -Kv^2$, find the value of the design parameter K , which would be a measure of the size and shape of the landing gear vanes that plow through the water. Also find the time t elapsed during the specified interval.

- 2/39** A particle moving along a straight line decelerates according to $a = -kv$, where k is a constant and v is velocity. If its initial velocity at time $t = 0$ is $v_0 = 4$ m/s and its velocity at time $t = 2$ s is $v = 1$ m/s, determine the time T and corresponding distance D for the particle speed to be reduced to one-tenth of its initial value.

$$\text{Ans. } T = 3.32 \text{ s, } D = 5.19 \text{ m}$$

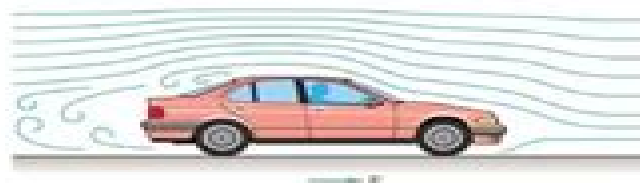
- 2/40** The cone falling with a speed v_0 strikes and penetrates the block of packing material. The acceleration of the cone after impact is $a = g - cy^2$, where c is a positive constant and y is the penetration distance. If the maximum penetration depth is observed to be y_m , determine the constant c .



Problem 2/40

- 2/41** The aerodynamic resistance to motion of a car is nearly proportional to the square of its velocity. Additional frictional resistance is constant, so that the acceleration of the car when coasting may be written $a = -C_1 - C_2v^2$, where C_1 and C_2 are constants which depend on the mechanical configuration of the car. If the car has an initial velocity v_0 when the engine is disengaged, derive an expression for the distance D required for the car to coast to a stop.

$$\text{Ans. } D = \frac{1}{2C_2} \ln \left(1 + \frac{C_2}{C_1} v_0^2 \right)$$



Problem 2/41

- 2/42** Compute the impact speed of a body released from rest at an altitude $h = 500$ mi. (a) Assume a constant gravitational acceleration $g_0 = 32.2$ ft/sec² and (b) account for the variation of g with altitude (refer to Art. 1.5). Neglect the effects of atmospheric drag.

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M Walker



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Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields John Guckenheimer, Philip Holmes, 2013-11-21 From the reviews This book is concerned with the application of methods from dynamical systems and bifurcation theories to the study of nonlinear oscillations Chapter 1 provides a review of basic results in the theory of dynamical systems covering both ordinary differential equations and discrete mappings Chapter 2 presents 4 examples from nonlinear oscillations Chapter 3 contains a discussion of the methods of local bifurcation theory for flows and maps including center manifolds and normal forms Chapter 4 develops analytical methods of averaging and perturbation theory Close analysis of geometrically defined two dimensional maps with complicated invariant sets is discussed in chapter 5 Chapter 6 covers global homoclinic and heteroclinic bifurcations The final chapter shows how the global bifurcations reappear in degenerate local bifurcations and ends with several more models of physical problems which display these behaviors Book Review Engineering Societies Library New York 1 An attempt to make research tools concerning strange attractors developed in the last 20 years available to applied scientists and to make clear to research mathematicians the needs in applied works Emphasis on geometric and topological solutions of differential equations Applications mainly drawn from nonlinear oscillations American Mathematical Monthly 2

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