

- 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.

Dynamics Meriam Lecture Note

Katrin Zwirgmaier



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