

Solutions to Problems in Goldstein, Classical Mechanics, Second Edition

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Chapter 1

Problem 1.1

A particle, initially at rest, is released from a height h by gravity and attains an ultimate speed $\sqrt{2gh}$ (1.75 km/s). Find the height h and the average force F exerted by the air during the fall. Assume constant F and $g = 9.8 \text{ m/s}^2$. The drag force F is proportional to the square of the velocity v , $F = kv^2$, where k is a constant. The drag force F is proportional to the square of the velocity v , $F = kv^2$, where k is a constant. The drag force F is proportional to the square of the velocity v , $F = kv^2$, where k is a constant.

Since the motion is downward, and upward is the positive direction in the problem, the distance h is negative. The position x is negative. Find the distance h and the average force F exerted by the air during the fall.

$$h = -\frac{v^2}{2g} = -\frac{(1.75 \text{ km/s})^2}{2(9.8 \text{ m/s}^2)} = -15.6 \text{ m}$$

and the average force F is

$$F = \frac{1}{2}mv^2 = \frac{1}{2}(0.01 \text{ kg})(1.75 \text{ km/s})^2 = 0.156 \text{ N}$$

with the h value. The average force F is constant at about 0.156 N, and the distance h is negative. The average force F is constant at about 0.156 N, and the distance h is negative.

$$F = \frac{1}{2}mv^2 = \frac{1}{2}(0.01 \text{ kg})(1.75 \text{ km/s})^2 = 0.156 \text{ N}$$

That is, the average force F is constant at about 0.156 N, and the distance h is negative.

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