

Solutions to Problems in Goldstein, Classical Mechanics, Second Edition

David Hestenes

August 10, 2000

Chapter 1

Problem 1.1

A particle, initially at rest, moves radially away from the center of the earth. Suppose $(1.9 \times 10^8 \text{ ft})^2$ and let r be the radial distance of the particle from the center of the earth. The Earth's gravitational field is assumed to be constant, equal to 32 ft/s^2 . The Earth's radius is 4000 miles . Find the radial distance r at which the particle's speed is $1.9 \times 10^8 \text{ ft/s}$. (Note: $1 \text{ mile} = 5280 \text{ ft}$.)

Place the center of the earth at the origin of the r -axis. The particle is at rest at $r = 0$. Find the radial distance r at which the particle's speed is $1.9 \times 10^8 \text{ ft/s}$.

$$\frac{d^2r}{dt^2} = -32 \text{ ft/s}^2$$

and the initial conditions are

$$r = 0, \quad \frac{dr}{dt} = 0 \text{ at } t = 0$$

and the final condition is that the particle's speed is $1.9 \times 10^8 \text{ ft/s}$ at $r = 4000 \text{ miles}$. The radial distance r is then

$$r = \frac{1}{2} \frac{d^2r}{dt^2} t^2 = \frac{1}{2} (-32) t^2 = -16 t^2$$

and the final condition is that the particle's speed is $1.9 \times 10^8 \text{ ft/s}$ at $r = 4000 \text{ miles}$.

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