

Solutions to Problems in Goldstein, Classical Mechanics, Second Edition

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Chapter 1

Problem 1.1

A particle, initially at rest, moves radially away from the center of the earth. Suppose $(1/2)mv^2 = 10^8$ J, and let m be the mass of the particle. Assuming that the earth is a uniform sphere of radius $R = 6400$ km, find the speed v of the particle. (The Earth's gravitational field is not constant, but the particle's speed is small compared to the speed of light, so that the relativistic correction to the kinetic energy is negligible. Also, the particle's speed is small compared to the speed of light, so that the relativistic correction to the mass is negligible.)

Since the motion is radial, and neglect the rotation of the earth, the problem is one-dimensional. Let the radial coordinate be r , and the radial velocity be v . Then the kinetic energy is

$$K = \frac{1}{2}mv^2 = 10^8 \text{ J},$$

and the potential energy is

$$U = -\frac{GMm}{r} = -\frac{GMm}{R},$$

where G is the gravitational constant, M is the mass of the earth, and R is the radius of the earth. The total energy is

$$E = K + U = \frac{1}{2}mv^2 - \frac{GMm}{R} = 10^8 \text{ J} - \frac{GMm}{R} = 0.$$

Thus the total energy is zero. The total energy is zero because the particle is at rest at the surface of the earth, and the total energy is zero.

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