

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 falls a distance L (Fig. 1.1). The initial speed is zero and the acceleration is constant at g . The force of gravity is $F = mg$ and the work done by gravity is $W = mgL$. The kinetic energy of the particle is $K = \frac{1}{2}mv^2$ and the potential energy is $U = mgh$. The total mechanical energy is $E = K + U$. The work done by gravity is equal to the change in kinetic energy, $W = \Delta K$. The potential energy is $U = mgh$ and the total mechanical energy is $E = K + U$. The work done by gravity is $W = mgL$ and the change in kinetic energy is $\Delta K = \frac{1}{2}mv^2$. The potential energy is $U = mgh$ and the total mechanical energy is $E = K + U$.

From the equation of motion, and neglecting the air drag, the velocity v of the particle at distance L is given by the equation $v^2 = 2gL$. The kinetic energy of the particle is $K = \frac{1}{2}mv^2$ and the potential energy is $U = mgh$.

$$K = \frac{1}{2}mv^2 = \frac{1}{2}m(2gL) = mgL$$

and the potential energy is $U = mgh$.

$$E = K + U = mgL + mgh$$

and the total energy is $E = mgL + mgh$. The kinetic energy is $K = \frac{1}{2}mv^2$ and the potential energy is $U = mgh$. The total mechanical energy is $E = K + U$.

$$E = \frac{1}{2}mv^2 + mgh = \frac{1}{2}m(2gL) + mgh = mgL + mgh$$

That is, the total energy is $E = mgL + mgh$. The kinetic energy is $K = \frac{1}{2}mv^2$ and the potential energy is $U = mgh$. The total mechanical energy is $E = K + U$.

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