

Conservation of Energy

Reading: Chapter 8

Potential Energy

The energy associated with the configuration (or arrangement) of a system of objects that exert a force on one another.

e.g. Gravitational potential energy – associated with the state of separation between objects, which attract one another via the gravitational force.

e.g. elastic potential energy – associated with the state of compression or extension of an elastic object.



FIG. 8.2 A ball is thrown up, then falls. As it rises, the gravitational force does negative work on it, decreasing its kinetic energy. As the ball falls, the gravitational force does positive work on it, increasing its kinetic energy.

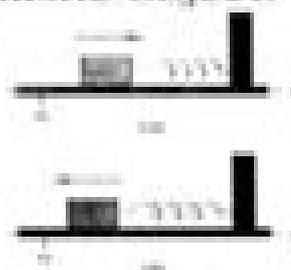


FIG. 8.3 A block, attached to a spring and initially at rest at $x = 0$, is set in motion toward the right. (a) As the block moves rightward, the work done by the spring force does negative work on it. (b) Then, as the block moves back toward $x = 0$, the spring force does positive work on it.

The change ΔU in the gravitational potential energy

= the work done by the applied force

= the negative of the work done by the gravitational force,

$$\boxed{\Delta U = -W_g}$$

Chapter 8 Potential Energy And Energy Conservation

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