

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.

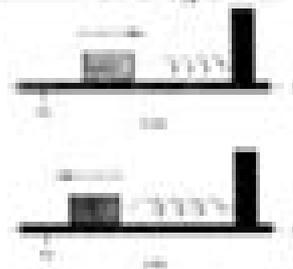


FIG. 8.3 A block, attached to a spring and initially at rest at $x = 0$, is set in motion toward the right. (a) As the block moves rightward (in the direction of the arrow), the spring force does negative work on it. (b) Then, as the block moves back toward $x = 0$, the spring force does positive work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

$$\Delta U = -W_g$$

Chapter 8 Potential Energy And Energy Conservation

Mark Steyvers



Chapter 8 Potential Energy And Energy Conservation:

Whispering the Strategies of Language: An Mental Journey through **Chapter 8 Potential Energy And Energy Conservation**

In a digitally-driven world wherever monitors reign supreme and immediate interaction drowns out the subtleties of language, the profound techniques and psychological subtleties hidden within phrases frequently get unheard. Yet, situated within the pages of **Chapter 8 Potential Energy And Energy Conservation** a captivating literary prize pulsating with fresh thoughts, lies a fantastic quest waiting to be undertaken. Penned by a talented wordsmith, this marvelous opus invites readers on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the very cloth of each and every word. Within the psychological depths of this poignant evaluation, we shall embark upon a genuine exploration of the book is primary styles, dissect their interesting publishing design, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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