

potential and kinetic energy pdf

Work, Kinetic Energy and Potential Energy 6.1 The Important Stuff 6.1.1 Kinetic Energy For an object with mass m and speed v , the kinetic energy is defined as $K = \frac{1}{2}mv^2$ (6.1) Kinetic energy is a scalar (it has magnitude but no direction); it is always a positive number; and it has SI units of $\text{kg} \cdot \text{m}^2/\text{s}^2$. This new combination of the basic ...

Chapter 6 Work, Kinetic Energy and Potential Energy

its potential and kinetic energies remain the same. When the planet is close to the sun, its potential energy is low and its kinetic energy high. The additional speed due to the increased kinetic energy keeps the planet from being pulled into the sun by the greater gravitational force it experiences at this point in its path.

Kinetic and Potential Energy/Conservation of Energy

Potential Energy Potential Energy is energy of position. An object gets potential energy from height, mass and gravity. An object with potential energy has the potential to do work. This potential is only released when the object falls. Kinetic Energy Kinetic Energy is energy of motion. An object gets kinetic energy from its mass and velocity.

KINETIC AND POTENTIAL ENERGY WORKSHEET

II. Work-Kinetic Energy Theorem $K_f - K_i = W$ (7.4) Change in the kinetic energy of the particle = Net work done on the particle III. Work done by a constant force - Gravitational force: $W = Fd \cos \theta$ (7.5) Rising object: $W = mgd \cos 180^\circ = -mgd$ $F = mg$ transfers mgd energy from the object's kinetic energy.

Chapter 7 " Kinetic energy, potential energy, work - Physics

Potential energy is energy attributed to an object by virtue of its position. When the position is changed, the total energy remains unchanged but is converted to a different type of energy, like kinetic energy. The frictionless roller coaster is a classic potential and kinetic energy example problem.

Potential And Kinetic Energy Example Problem - Work and

Chapter 14 Potential Energy and Conservation of Energy ... 14.4 Change in Potential Energy and Zero Point for Potential Energy ... mechanical energy, kinetic energy and potential energy. Our first task is to define what we mean by the change of the potential energy of a system.

Chapter 14 Potential Energy and Conservation of Energy

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Kinetic and Potential Energy Vocabulary: kinetic energy energy of movement potential energy stored energy potential chemical energy stored energy released by chemical changes Comprehension Questions 1. Explain how speed and weight affect an amount of kinetic energy. 2.

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