

# Conservation of Energy

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## Introduction:

*Conservation of Energy in Physics 2210* refers to the fundamental law that energy cannot be created or destroyed but can only be transformed or transferred from one object or form to another. It is essential to the understanding of mechanics, electromagnetism, waves, and particles. The law of conservation of energy is derived from the first law of thermodynamics, which states that energy is conserved in a closed system where no energy is lost or gained.

The study of energy conservation in *Physics 2210* involves various topics such as kinetic energy, potential energy, work, power, energy transformations, and its applications in everyday life. In this study guide, we will cover each of these topics in detail.

## Kinetic Energy:

*Kinetic energy is the energy possessed by an object in motion. It is a scalar quantity that depends on the mass and velocity of the object. The formula for kinetic energy is:*

$$K = (1/2)mv^2$$

*Where K is the kinetic energy, m is the mass of the object, and v is the velocity of the object.*

*Kinetic energy is a conserved quantity, which means that it remains constant as long as there is no external force acting on the system. Similarly, the change in kinetic energy ( $\Delta K$ ) is equal to the work done on the system (W):*

$$\Delta K = W$$

# Physics Conservation Of Energy Study Guide Answers

**L Darling-Hammond**



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