

AP Physics: Chapter 10: Simple Harmonic Motion

Terms involved with periodic motion

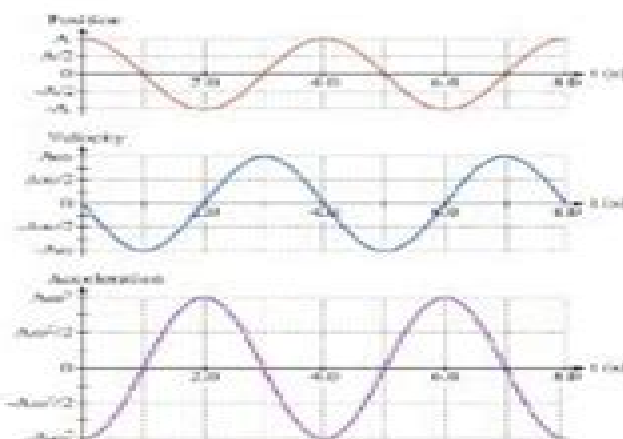
- ⊕ T = period of motion (sec), time for one complete cycle to take place
- ⊕ f = frequency of motion (sec^{-1} , Hz), number of oscillations that happen in a set amount of time.
 - $f = 1/T$
- ⊕ ω (omega) = angular frequency = $2\pi f = 2\pi/T$

Simple Harmonic Motion is a type of repetitive or oscillatory motion. The main features of any systems that is said to be in simple harmonic motion include:

- ⊕ No loss of mechanical energy.
- ⊕ A restoring force or torque that is proportional to, and opposite in direction to, the displacement of the system from equilibrium.
- ⊕ The acceleration of the system is related to the displacement from rest of the system through the equation: $\vec{a} = -\omega^2 \vec{x}$ (connection between acceleration and displacement)

Equations of Simple Harmonic Motion: A harmonic oscillator moves over time much like the x -motion of an object rotating in uniform circular motion. Its position, velocity and acceleration can be described with simple sine and cosine functions and are related as follows:

- ⊕ $x(t) = A \cos(\omega t)$; where the amplitude is A
- ⊕ $v(t) = -A\omega \sin(\omega t)$; where the amplitude is $A\omega$
- ⊕ $a(t) = -A\omega^2 \cos(\omega t)$; where the amplitude is $A\omega^2$



Energy in Simple Harmonic Motion: Since mechanical energy is conserved in simple harmonic motion, the sum of the kinetic and potential energy of the system is always constant. The potential and kinetic energies also oscillate in a sinusoidal path, but with a frequency double that of the system. The potential and kinetic energies are also $\pi/2$ radians out of phase with each other (i.e. one is sine the other cosine). The potential energy follows the displacement squared so it is a $\cos^2$ function, and the kinetic energy follows the velocity squared so it is a $\sin^2$ function. Also notice the neither can ever be negative.

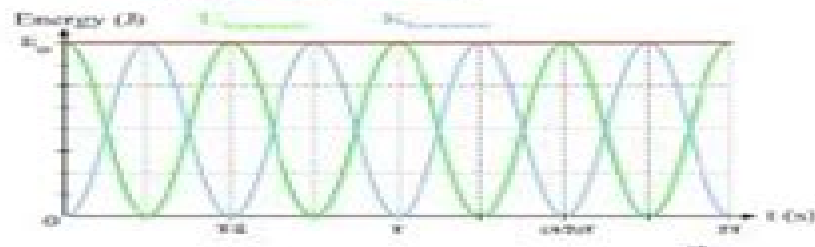
They both have amplitudes equal to the total energy (E_0) of the system.

$$U_{\text{harmonic}} = E_0 \cos^2(\omega t)$$

$$K_{\text{harmonic}} = E_0 \sin^2(\omega t)$$

The amplitude of the energy, or the total energy can be found by substituting the max-velocity equation into the kinetic energy equation ($K = \frac{1}{2}mv^2$). You end up with a value for the total energy as:

$$E_0 = \frac{1}{2}m(A\omega)^2 = \frac{m\omega^2 A^2}{2}$$



Harmonic Motion Ch 1answer Key

Mehta J.S. and Kailey A.S.



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