

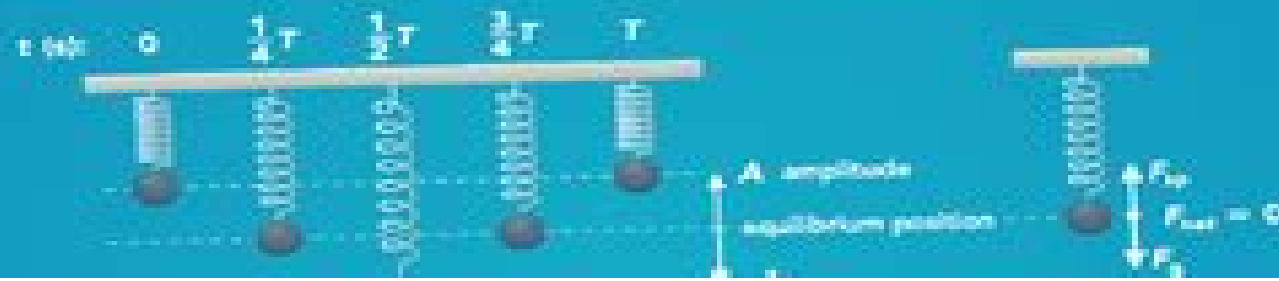
PHYSICS 1

STUDY GUIDE:

SIMPLE HARMONIC MOTION

- The **equilibrium position** of a simple harmonic motion is the position where the net force on the object is zero and the acceleration is zero. If the object is placed in the equilibrium position and released it will not move. For a horizontal mass-spring system this is the position where the spring is at its original length and the spring force is zero. For a vertical mass-spring system this is the stretched length where the upwards spring force is equal to the downwards gravitational force. For a pendulum this is lowest position where the pendulum is vertical.
- The **amplitude** of a simple harmonic motion is the distance between the equilibrium position and one end of the oscillation. The distance between both ends of the oscillation is twice the amplitude.
- If we graph the position of the object over time the graph is **sinusoidal** (it's a sine wave, with some phase shift).
- For any motion, the value of the velocity graph is the slope of the position graph at any point in time, and the value of the acceleration graph is the slope of the velocity graph at any point in time. This results in all three graphs being sinusoidal as seen below.
- We can describe the position, velocity and acceleration over time using the wave equations below which depend on the amplitude, frequency and time.

Graphs of the position, velocity and acceleration of a mass-spring system for one oscillation (one period)



Physics Principle And Motion Study Guide Answers

**David C. Cassidy, Gerald Holton, F.
James Rutherford**



Physics Principle And Motion Study Guide Answers:

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