

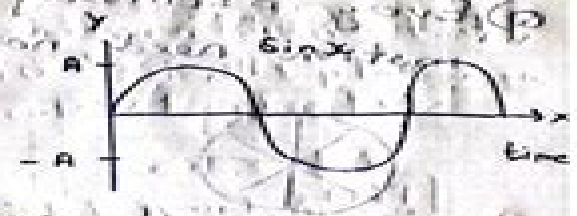
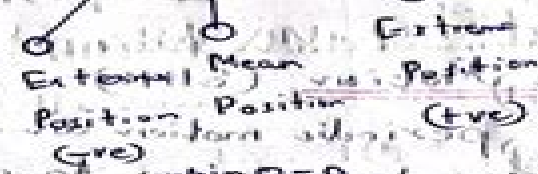
5. Oscillations

5.1 Introduction

Types of Motion

- 1) Linear motion
- 2) Angular motion

3) Harmonic motion



Mathematical representation of harmonic motion:
 $y = A \sin(\omega t)$ or $y = A \cos(\omega t)$
 where A is the amplitude, ω is the angular frequency, and t is time.

Periodic Motion

The motion of a body which repeats itself after equal intervals of time called as periodic motion.



Vibratory Motion

Periodic motion in which a particle repeatedly moves to and fro along the same path is the oscillatory or vibratory motion.

Example of Oscillatory Motion

1. Rocking of the cradle
2. Swinging of a swing
3. Motion of the pendulum of a clock
4. Vibrations of a guitar or violin string
5. Up and down motion of the needle of a sewing machine
6. Oscillation of a spring

$$T = \frac{2\pi}{\omega}$$

Notes On Oscillation 12th Hsc

Minjie Lin



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2 classical fluids 3 liquid crystals 4 diffusion limited aggregation and dendritic growth 5 biological physics 6 plasma physics 7 physics of beams 8 classical physics including nonlinear media and 9 computational physics *Science Abstracts* ,1957

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