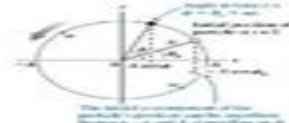


Displacement in SHM
 $x(t) = A(\cos \omega t + \phi)$
 $A =$ Amplitude i.e., maximum displacement of particles.
Phase: Time varying quantity $(\omega t + \phi)$
 Phase constant or Phase angle (ϕ)
 It depends upon velocity (v) and displacement of particle at $t = 0$



Velocity in SHM:

$$v = \frac{dx}{dt} = -\omega A \sin(\omega t + \phi)$$

$$v_{\max} = \omega A$$

Acceleration in SHM:

$$a = \frac{dv}{dt} = -\omega^2 A \cos(\omega t + \phi)$$

$$a_{\max} = \omega^2 A$$

Energy in SHM:

Kinetic Energy:

$$K.E = \frac{1}{2} m \omega^2 A^2 \sin^2(\omega t + \phi)$$

Potential Energy:

$$P.E = \frac{1}{2} m \omega^2 A^2 \cos^2(\omega t + \phi)$$

Total energy, T.E = K.E + P.E.
 $= \frac{1}{2} k A^2 \sin^2(\omega t + \phi) + \cos^2(\omega t + \phi)$

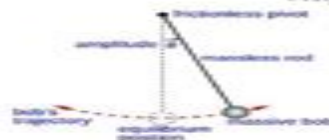
Simple Harmonic Motion is the simplest form of oscillatory motion

SHM

Oscillation

Simple Pendulum

$$\text{Time Period } T = 2\pi \sqrt{\frac{1}{mg}} = 2\pi \sqrt{\frac{l}{g}}$$



Oscillation due to springs

$$\text{Time Period } T = 2\pi \sqrt{\frac{m}{k}} = 2\pi \sqrt{\frac{l}{g}}$$

Here, $k = \frac{F}{x}$ = spring constant

Oscillation

- Every oscillatory motion is periodic, but every periodic motion need not be oscillatory.
- To and fro motion repeatedly about a fixed point in a definite interval of time.



Forced Oscillation:

Driving force, $F(t) = F_0 \cos \omega_d t$
 Displacement, $x(t) = A \cos(\omega_d t + \phi)$
 Amplitude, $A = \frac{F_0}{[m(\omega^2 - \omega_d^2)^2 + \omega_d^2 b^2]^{\frac{1}{2}}}$
 $\tan \phi = \frac{v_0}{\omega_d x_0}$

Resonance: When frequency of external force is equal to natural frequency of oscillator

Damped Oscillation:

Oscillation of a body whose amplitude goes on decreasing with time.

Damping force $F_d = -bv$,

$b =$ damping constant
 Displacement of damped oscillator
 $x = x_0 e^{-bt/2m} \sin(\omega t + \phi)$

Amplitude decreases with time as
 $x = x_0 e^{-(b/2m)t}$



Oscillation Chapter Of 12th Physics

Grant Campbell



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Modern Microwave and Millimeter-Wave Power Electronics Gregory S. Nusinovich, 2005-04-19 A comprehensive study of microwave vacuum electronic devices and their current and future applications While both vacuum and solid state electronics continue to evolve and provide unique solutions emerging commercial and military applications that call for higher power and higher frequencies to accommodate massive volumes of transmitted data are the natural domain of vacuum electronics technology Modern Microwave and Millimeter Wave Power Electronics provides systems designers engineers and researchers especially those with primarily solid state training with a thoroughly up to date survey of the rich field of microwave vacuum electronic device MVED technology This book familiarizes the R D and academic communities with the capabilities and limitations of MVED and highlights the exciting scientific breakthroughs of the past decade that are dramatically increasing the compactness efficiency cost effectiveness and reliability of this entire class of devices This comprehensive text explores a wide range of topics Traveling wave tubes which form the backbone of satellite and airborne communications as well as of military electronic countermeasures systems Microfabricated MVEDs and advanced electron beam sources Klystrons gyro amplifiers and crossed field devices Virtual prototyping of MVEDs via advanced 3 D computational models High Power Microwave HPM sources Next generation microwave structures and circuits How to achieve linear amplification Advanced materials technologies for MVEDs A Web site appendix providing a step by step walk through of a typical MVED design process Concluding with an in depth examination of emerging applications and future possibilities for MVEDs Modern Microwave and Millimeter Wave Power Electronics ensures that systems designers and engineers understand and utilize the significant potential of this mature yet continually developing technology SPECIAL NOTE All of the editors royalties realized from the sale of this book will fund the future research and publication activities of graduate students in the vacuum electronics field Nonlinear Wave Processes in Acoustics K. Naugolnykh, L. Ostrovsky, 1998-05-28 This text considers models of different acoustic media as well as equations and behavior of finite amplitude waves It also considers the effects of nonlinearity dissipation dispersion and for two and three dimensional problems reflection and diffraction on the evolution and interaction of acoustic beams *Bubbles in Food 2* Grant Campbell, 2016-06-11 Bubbles give novelty and distinctiveness to many food and drink products including the most important and interesting ones such as bread beer ice cream whipped cream souffl s and champagne Understanding the creation and control of bubbles in food products is key to the success of the domestic chef or the industrial food manufacturer This new volume presents the proceedings of the conference Bubbles in Food 2 Novelty Health and Luxury This book is fully updated and expanded from the original Bubbles in Food book published in 1999 This new title brings together up to date information on the latest developments in this fast moving area Bubbles in Food 2 includes novel experimental techniques for measuring and quantifying the aerated structure of foods e g ultrasonics MRI imaging X ray tomography microscopy rheology image

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Robert Vichnevetsky, Pierre Borne, J. Vignes, 1988 Physical Concepts of Materials for Novel Optoelectronic Device Applications II, 1991 Waldie's Select Circulating Library, 1832 *Who's who in the HKSAR*, 2001 The Physics of Oscillations and Waves Ingram Bloch, 2013-06-29 Except for digressions in Chapters 8 and 17 this book is a highly unified treatment of simple oscillations and waves The phenomena treated are simple in that they are describable by linear equations almost all occur in one dimension and the dependent variables are scalars instead of vectors or something else such as electromagnetic waves with geometric complications The book omits such complicated cases in order to deal thoroughly with properties shared by all linear oscillations and waves The first seven chapters are a sequential treatment of electrical and mechanical oscillating systems starting with the simplest and proceeding to systems of coupled oscillators subjected to arbitrary driving forces Then after a brief discussion of nonlinear oscillations in Chapter 8 the concept of normal modes of motion is introduced and used to show the relationship between oscillations and waves After Chapter 12 properties of waves are explored by whatever mathematical techniques are applicable The book ends with a short discussion of three dimensional problems in Chapter 16 and a study of a few aspects of non linear waves in Chapter 17

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