C@ncept

Phase constant

or Phase angle (4)

Depends on velocity (v)

and displacement of

particle at t=0

Velocity of SHM
$$\nu = \frac{dx}{d(t)} = -\cos t \sin(\cot t + \phi)$$

$$v = -\cos\sqrt{A^2 - x^2}$$

 $v_{\text{max}} = \cos A$ mean position
 $v = 0$ extreme position

Acceleration in SHM

$$\alpha = \frac{d^{2}v}{dt} = -\omega^{2}A\cos(\omega t + \phi)$$

 $a_{max} = es^2$ extreme position $\alpha = 0$ mean position

Energy in SHM

Kinetic energy

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

$$K.E. = \frac{1}{2}m\omega^2(A^2 - x^2)$$

= $\frac{1}{2}K(A^2 - x^2)$

Potential energy

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

$$T.E = \frac{1}{2}m\omega^2 A^2$$

Total energy T.E. = K.E. = P.E.

 $= 1/2kA^{2}[\cos^{2}(\omega t + \phi) + \sin^{2}(\omega t + \phi)]$

Displacement in SHM

 $x(t) = A(\cos \omega t + \phi)$

A = Amplitudei.e., Maccimum displacement of particle

SHIME

Phase

Time Period (T)

The smallest Simple Harmonic motion interval of time is the simplest form of after which the oscillatory motion motion is repeated.

The state of the particle regards its position and direction of motion at that instant. Time varying quantity ($\cos t + \phi$)

Frequency (f)

The number of oscillations per second,

i.e.,
$$f = \frac{1}{T} = \frac{\omega}{2\pi}$$

OSCILLATIONS

To-and-fro motion repeatedly about a fixed point in a definite interval of time

Every oscillatory motion is periodic, but every periodic motion need not be oscillatory.

Oscillation due to a spring

Time Period.

 $k = \frac{F}{r}$ spring or force constant

Restoring force $F \propto -x$ or F = -kx

Second's pendulum

A pendulum whose time period, T=2 sec and its length,

Simple Pendulum Time Period

 $\ell = 99.3 \, cm$

Spring cut into parts. If we divide the spring of spring constant k into n equal parts, the spring constant of each part becomes ak. The time

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Richard Fitzpatrick

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Wireless World ,1973 Fundamentals of Waves and Oscillations K. U. Ingard, 1988-07-28 This is a complete introduction to the theory of waves and oscillations as encountered by physics and engineering students It discusses both the mathematical theory and the physics of phenomena such as waves in fluids electromagnetic waves and discrete coupled oscillators in mechanics and electronics The author gives a description of the mathematics of complex amplitudes and introduces forced and free oscillations and normal modes of resonance Chapters cover wave guides barrier penetration and electromagnetic transmission One section devoted solely to surface waves includes a discussion on light scattering and the determination of surface tension and viscosity plasma oscillations and feedback oscillations Ideas and equations are displayed for easy reference and sets of exercises follow each chapter Oscillation and Wave EduGorilla Prep Experts, 2024-10-17 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Waves and Oscillations R. N. Chaudhuri, 2000 The Physics of Oscillations and Waves Ingram Bloch, 2014-01-15 OSCILLATIONS AND WAVES GARG, SURESH, GHOSH, C. K., GUPTA, SANJAY, garg Suresh, 2009-12 Primarily intended for the undergraduate students of physics this book presents a systematic exposition of the fundamentals of physics of oscillations and waves The treatment of the subject is rigorous interactive and student friendly The involved mathematical steps have been worked out and alternative approaches have been discussed wherever possible to equip students with extra skills Organized in two part Part I Oscillations and Part II Waves the book is structured in such a way that the students participate actively as they proceed and get ample opportunities to develop problem solving skills More than one hundred problems numerical and reason based questions with graded difficulty levels have been included as Practice Exercises and Review Exercises in each chapter Moreover Solved Examples have been interspersed in the text to facilitate clear understanding of the concepts involved in each section Vibrations and Waves Benjamin Crowell, 2000 **Oscillations** and Waves ,1998 Waves And Oscillations 2Ed N Subrahmanyam, 2009-11-01 The subject matter is divided into twelve chapters Each chapter is self contained and is treated in a comprehensive way using the S I system of units Harmonic Oscillators Linearity and Superposition Principle Oscillations with One Degree of Freedom Resonance and Sharpness of Resonance Quality Factor Doppler Effect in Sound and Light Medical Applications of Ultrasonics Acoustic Intensity Acoustic Measurements Wave Velocity and Group Velocity Maxwell's Equations Propagation of Electromagnetic Waves in Isotropic Media De Broglie Waves Heisenberg s Uncertainty Principle and Special Theory of Relatively are some of the important topics which have been given special attention Solved numerical problems wherever necessary are given in the text and in the exercises at the end of each chapter The book is intended to be a textbook for the undergraduate students of Indian

universities The physics of waves and oscillations N. K. Bajaj, 1988 **Slowly Varying Oscillations And Waves: From Basics To Modernity** Lev Ostrovsky, 2022-02-23 The beauty of the theoretical science is that guite different physical biological etc phenomena can often be described as similar mathematical objects by similar differential or other equations In the 20th century the notion of theory of oscillations and later theory of waves as unifying concepts meaning the application of similar methods and equations to quite different physical problems came into being In the variety of applications quite possibly in most of them the oscillatory process is characterized by a slow as compared with the characteristic period variation of its parameters such as the amplitude and frequency The same is true for the wave processes This book describes a variety of problems associated with oscillations and waves with slowly varying parameters Among them the nonlinear and parametric resonances self synchronization attenuated and amplified solitons self focusing and self modulation and reaction diffusion systems For oscillators the physical examples include the van der Pol oscillator and a pendulum models of a laser For waves examples are taken from oceanography nonlinear optics acoustics and biophysics The last chapter of the book describes more formal asymptotic perturbation schemes for the classes of oscillators and waves considered in all preceding Oscillations and Waves Richard Fitzpatrick, 2017-08-25 Bridging lower division physics survey courses with chapters upper division physics courses Oscillations and Waves An Introduction develops a unified mathematical theory of oscillations and waves in physical systems Emphasizing physics over mathematics the author includes many examples from discrete mechanical optical and quantum mechanical systems continuous gases fluids and elastic solids electronic circuits and electromagnetic waves Assuming familiarity with the laws of physics and college level mathematics the book focuses on oscillations and waves whose governing differential equations are linear. The author covers aspects of optics that crucially depend on the wave like nature of light such as wave optics He also introduces the conventional complex representation of oscillations and waves later in the text during the discussion of quantum mechanical waves This helps students thoroughly understand how to represent oscillations and waves in terms of regular trigonometric functions before using the more convenient but much more abstract complex representation Based on the author's longstanding course at the University of Texas at Austin this classroom tested text helps students acquire a sound physical understanding of wave phenomena It eases students difficult transition between lower division courses that mostly encompass algebraic equations and upper division courses that rely on differential equations Oscillation and Waves: Fundamental Concepts in Physics Paula Willoughby, 2018-02-06 The repetitive variation in time of a motion from one place to another or towards equilibrium point is known as an oscillation Mechanical oscillations are called vibrations and other forms of oscillations are pendulum and alternating current power The different types of oscillators are harmonic oscillators and anti vibration compound When oscillations travel via mass or space carrying or transferring energy they are known as waves This book unfolds the innovative aspects of oscillation and waves which will be crucial for the holistic understanding of the subject matter The

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