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Based on the UGC curriculum, New Chapter: Short Biography of Noted Acoustics Physicists

This book presents the theory of waves and oscillations and various applications of acoustics in a logical and simple form. The physical principles have been explained with necessary mathematical formulation and supported by experimental layout wherever possible. Incorporating the classical view point all aspects of acoustic waves and oscillations have been discussed together with detailed elaboration of modern technological applications of sound. A separate chapter on ultrasonics emphasises the importance of this branch of science in fundamental and applied research. The book is expected to present to its readers a comprehensive presentation of the subject-matter and at the same time to guide him for independent thinking on some new lines of investigation.

In this textbook a combination of standard mathematics and modern numerical methods is used to describe a wide range of natural wave phenomena, such as sound, light and water waves, particularly in specific popular contexts, e.g. colors or the acoustics of musical instruments. It introduces the reader to the basic physical principles that allow the description of the oscillatory motion of matter and classical fields, as well as resulting concepts including interference, diffraction, and coherence. Numerical methods offer new scientific insights and make it possible to handle interesting cases that can't readily be addressed using analytical mathematics; this holds true not only for problem solving but also for the description of phenomena. Essential physical parameters are brought more into focus, rather than concentrating on the details of which mathematical trick should be used to obtain a certain solution. Readers will learn how time-resolved frequency analysis offers a deeper understanding of the interplay between frequency and time, which is relevant to many phenomena involving oscillations and waves. Attention is also drawn to common misconceptions resulting from uncritical use of the Fourier transform. The book offers an ideal guide for upper-level undergraduate physics students and will also benefit physics instructors. Program codes in Matlab and Python, together with interesting files for use in the problems, are provided as free supplementary material.

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.

This Book Explains The Various Dimensions Of Waves And Oscillations In A Simple And Systematic Manner. It Is An Unique Attempt At Presenting A Self-Contained Account Of The Subject With Step-By-Step Solutions Of A Large Number Of Problems Of Different Types. The Book Will Be Of Great Help Not Only To Undergraduate Students, But Also To Those Preparing For Various Competitive Examinations.

Fortify your knowledge of the amplitudes and frequencies associated with analytic signals and waves, and understand their role in the solution of difficult engineering and physical problems with this practical new book. It shows you how to employ one universal new method in solving challenging engineering problems related to signal processing, wave propagation, electrical and electronics engineering, mechanical and seismic oscillations, acoustics, and other areas. In clear, easy-to-understand language, and with the help of more than 1000 equations, the author illustrates how this practical approach is used to work out both new and classic problems more accurately than traditional methods.

About the Book: The book presents a comprehensive study of Waves and Oscillations in different fields of physics. It explains the basic concepts of waves and oscillations through the method of solving problems. Each chapter begins with the short and clear description of the basic concepts and principles. This is followed by a large number of solved problems of different types. The proofs of relevant theorems and derivations of basic equations and formulae are included among the solved problems. A large number of supplementary problems at the end of each chapter serve as a complete review of the theory. The topics discussed include simple harmonic motion, superposition principle and coupled oscillations, damped harmonic oscillations, forced vibrations and resonance, waves, superposition of waves, Fourier analysis, vibrations of strings and membranes, Doppler effect, acoustics of buildings, electromagnetic waves, interference and diffraction. There are more than 370 solved problems and around 380 supplementary problems with answers. This book will be of great help not only to B.Sc.(Honours and Pass) students of physics but also to those preparing for various competitive examinations. About the Author: Dr. R.N. Chaudhuri retired from Visva-Bharati, Santiniketan in 2005. He was Professor and Head of the Department of Physics in Visva-Bharati. He served as Lecturer in Physics at Hindu College, University of Delhi during the period 1971-76. He received his Ph.D. Degree from University of Delhi in the field of particles and their interactions. Professor Chaudhuri visited several foreign universities and institutes. He published more than fifty papers in national and international journals of repute.

This very comprehensive and practical textbook presents a clear, systematic and comprehensive introduction to the relevant mathematics and physics of linear and nonlinear oscillations and waves. It explains even the most complicated cases clearly, with numerous illustrations for further clarification.