



Oscillations, Waves and Acoustics

P.K. Mittal

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The present book is meant for the students of undergraduate Science and Engineering courses. This course finds lots of applications, right from Mechanics, Sound, Optics, Solid State Physics, Electrodynamics to Electronics. The chapters cover a vast number of topics like free, forced, damped oscillations, normal modes of vibrations, sound waves, overdamped and ballistic oscillations, LCR circuits etc. In every chapter the topics are dealt with in detail followed by illustrated solved examples and unsolved exercises.

Some previous experience with a Calculus course in which differential equations have been discussed is highly desirable. However, the details of the steps in arriving at final solutions are worked out in detail. The book, thus, acts like any textbook and at the same time no help book is needed for further details.

Contents: Simple Harmonic Motion / Free, Damped and Forced Vibrations / Circuit Transients - Damped and Forced Oscillations / Addition of Simple Harmonic Motions: Lissajous' Figures / Normal Modes of Vibration: Coupled Oscillations / Wave Motion / Velocity of Sound / Stationary Waves, Interference and Beats / Reflection, Refraction and Diffraction / Vibrations in Strings, Air Columns and Rods / Fourier's Theorem / Architectural Acoustics / Ultrasonics / Some Miscellaneous Acoustical Phenomena / Electromagnetic Waves / Matter Waves, Shock Waves and Seismic Waves / Index

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