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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.

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water waves, each water molecule also undergoes oscillatory motion, and again, there is no overall net motion. 1 So needless to say, an understanding of oscillations is required for an understanding of waves.

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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.

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2 Preface The book "Oscillations and waves" is an account of one semester course, PHYSICS-I, given by the authors for the last three years at IIT, Kharagpur.

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oscillations & waves. physics 111N 2 periodic motion! often a physical system will repeat the same motion over and over! we call this periodic motion, or an oscillation the time it takes for the motion to complete one cycle is called the period,  $T$  ... "second harmonic" ...

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