Date
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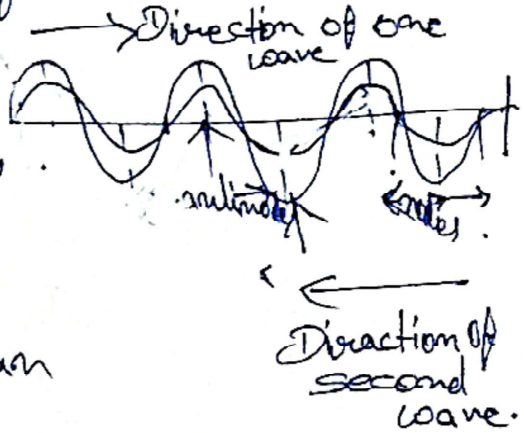
Unit I / Paper-I
MSc Physics / Sem-II

Characteristics of normal modes vibration in basic oscillation →:



It are specific, independent patterens of motion in an Oscillating system where all parts vibrate simusoidally at the same natural frequency and phase.

(1) Independent motion — mode can be excited independetaly and the general motion of a complex system is a linear superposition of its normal modes.

(2.) Orthogonality - Normal modes are metheomaticdly orthogonal to each other.

(3.) Natural Frequency - Each mode be ~~excited~~ oscillates at a specific frequency

(4.) Mode shape — Represents the shape of the deformation during that mode of Vibration.