

mechanical vibrations theory and pdf

In physics, a phonon is a collective excitation in a periodic, elastic arrangement of atoms or molecules in condensed matter, like solids and some liquids. Often designated a quasiparticle, it represents an excited state in the quantum mechanical quantization of the modes of vibrations of elastic structures of interacting particles.. Phonons play a major role in many of the physical properties ...

Phonon - Wikipedia

The mechanical vibrations that can be interpreted as sound can travel through all forms of matter: gases, liquids, solids, and plasmas. The matter that supports the sound is called the medium. Sound cannot travel through a vacuum.. Longitudinal and transverse waves. Sound is transmitted through gases, plasma, and liquids as longitudinal waves, also called compression waves.

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