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Gordon Edward Peckham, Trinity College, Cambridge.
Dissertation submitted for the Ph. D. Degree; July 1964.
Phonon - Wikipedia

The entire set of all possible phonons that are described by the above phonon dispersion relations combine in what is known as the phonon density of states which

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computingformaterials.com

Phonon Dispersion Relations. The phonon dispersion relations are defined as the k wave vector dependence of the frequencies (k,j) of the normal modes for all branches j and selected directions in the crystal. The number of phonon branches, $j=1,2, 3r$, is equal to the number of degree of freedom in the primitive unit cell.

Phonons - University of Warwick

Phonon dispersion relation shows features in crystals with two or the crystal will contain two types of phonon, acoustic and optical. Optical phonons are excited
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The phonon dispersion relations are defined as the k wave vector dependence of the frequencies (k,j) of the normal modes for all branches j and selected directions in the crystal. The number of phonon branches, $j=1,2, 3r$, is equal to the number of degree of freedom in the primitive unit cell.

Dispersion relations :: Condensed Matter Physics ::
Rudi ...

Dispersion relations and phonons. The wave number, SkS , is a measure of the spatial periodicity of a wave, i.e. the number of oscillations per length unit.

Dispersion relation - Wikipedia

Total energy, momentum, and mass of particles are connected through the relativistic dispersion relation: $= +$ which in the ultrarelativistic limit is

Phonon dispersion relations in semiconductor superlattices ...

The phonon dispersion in semiconductor superlattices is

studied in the adiabatic bond-charge model. The complex phonon dispersion relations of the constituent bulk
Phonon Dispersion Relations in Insulators | H. Bilz | Springer

This phonon atlas presents a collection of phonon-dispersion and density-of-states curves of more than a hundred insulating crystals. It grew out of an appendix to **Phonon Dispersion Relations in Insulators** by H. Bilz, W. ...

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