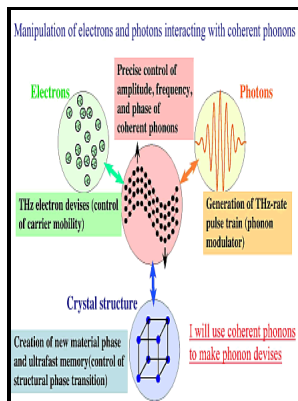


# Spectroscopy of nonequilibrium electrons and phonons

North-Holland - Phonon spectroscopy :: Condensed Matter Physics :: Rudi Winter's web space



Description: -

-

Optical pumping.

Phonons -- Optical properties.

Semiconductors -- Optical properties.

Hot carriers -- Optical properties. Spectroscopy of nonequilibrium electrons and phonons

-

v. 35

Modern problems in condensed matter sciences ; Spectroscopy of nonequilibrium electrons and phonons

Notes: Includes bibliographical references and indexes.

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Tags: #Spectroscopy #of #hot #carriers #in #semiconductors #— #Princeton #University

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For example, in a linear configuration of three atoms whether in a molecule or a crystal lattice, the symmetric stretch mode is Raman active, while the asymmetric stretch and bending modes aren't as they don't affect the polarisability.

## Detecting electron

Principles of the theory of solids 2nd ed.

## Phonon

} The number operator commutes with a string of products of the creation and annihilation operators if and only if the number of creation operators is equal to number of annihilation operators.

## Phonon

Optical phonons have higher energies frequencies, but make smaller contribution to conduction heat transfer, because of their smaller group velocity and occupancy. For calculation of  $k$  f, the equilibrium MD with, which express the transport coefficients in terms of integrals of time correlation functions considering fluctuation, or nonequilibrium MD prescribing heat flux or temperature difference in simulated system are generally employed. This behavior fails at large values of  $k$ ,  $i$ .

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