

m-1 and magnetic fields up to 11 T, have been used to investigate the electronic transport properties of monolayer graphene on SiC substrate. The number of layers was determined by the use of the Raman spectroscopy. The carrier density and in-plane ...

Effective mass of electron in monolayer graphene: Electron ...

A polaron is a quasiparticle used in condensed matter physics to understand the interactions between electrons and atoms in a solid material. The polaron concept was first proposed by Lev Landau in 1933 to describe an electron moving in a dielectric crystal where the atoms move from their equilibrium positions to effectively screen the charge of an electron, known as a phonon cloud.

Polaron - Wikipedia

The electron-phonon interaction is expanded in powers of the interaction which involves the single-ion potential of the electrons. in the potential of the ions.

(PDF) The electron-phonon interaction in metals

Next: 4.4 DFPT with the Up: 4 Using PHonon Previous: 4.2 Calculation of interatomic Contents 4.3 Calculation of electron-phonon interaction coefficients. Since v.5.0, there are two ways of calculating electron-phonon coefficients, distinguished according to the value of variable electron_phonon.

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