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Lattice vibrations in CuInSe₂ crystals

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Abstract

Infrared reflection spectra of CuInSe2 crystals are investigated for the polarizations $E\parallel c$ and $E\perp c$. Contours of the reflection spectra are calculated and phonon parameters and dielectric constants are determined. The effective charges of the Cu, In, and Se ions in these materials are determined. The two-phonon absorption spectra in CuInSe2 are investigated and the absorption bands are identified from the selection rules.