

Far Infrared and Raman Optical Study of CdInGaS₄, CdIn₂S₄, HgInGaS₄ and CdIn₂S₂Se₂ Crystals

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Abstract

Abstract Raman and infrared reflectivity spectra of CdInGaS₄, CdIn₂G₄, HgInGaS₄, and CdIn₂S₂Se₂ crystals have been investigated. The fundamental phonon parameters, the limiting dielectric constants ϵ_0 and ϵ_∞ and the reflectivity spectrum contours have been calculated using classical dispersion relations.