



Vibrational modes in ZnAl_2S_4 and CdIn_2S_4 crystals

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Abstract

Infrared reflectivity spectra and Raman scattering of the ZnAl_2S_4 and CdIn_2S_4 crystals have been investigated. Reflectivity spectra contours were calculated and phonon parameters and dielectric constants were determined. Effective charges for the Zn, Cd, In and S ions of these materials were determined.