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Energy Band Structure of CuInS₂ Crystals

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Abstract

Abstract In this work the reflectivity spectra and wave-length derivative reflectivity (WDR) spectra of CuInS₂ crystals have been investigated in the region $E \ge E_g$. The n = 1, n = 2 and n = 3 excitonic states are determined and contours of exciton lines n = 1 are calculated. The parameters of excitons and bands have been determined for the region of band gap minimum. The main band gaps are determined for Γ -, *N*- and *T*-points of the Brillouin zone.