

Physica B: Condensed Matter

Volume 210, Issue 1, 1 April 1995, Pages 43-48



Energetic band structure and optical spectra of CdGa₂Se₄, CdGa₂S₄ and CdAl₂S₄ crystals

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https://doi.org/10.1016/0921-4526(94)00918-L

Abstract

Reflectivity spectra of $CdGa_2Se_4$, $CdGa_2S_4$ and $CdAl_2S_4$ crystals have been investigated in the range 1–6 eV for the polarization E||c and $E\perp c$ at 300 and 77 K. The valence band splitting caused by spin-orbital interaction and by crystal field are calculated for the point k = 0. The band model has been built in actual points of the Brillouin zone, Γ , N, T, P.