

Optical spectra and electroabsorption of CdP₂ and CdP₄ single crystals

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Abstract

The anisotropy of the absorption and electroabsorption spectra of CdP₂ and CdP₄, single crystals has been investigated. A number of interband gaps has been determined and specified. The energies and the type of phonons involved in direct and indirect transitions have been determined. Proceeding from group-theoretical calculations of the band structure, the transitions in CdP₄ have been localised and some regularities of the phonons in CdP₂ have been revealed.