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Anisotropy of reflection spectrum and band structure of SbSI

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Abstract

Anisotropy of the SbSI reflection spectra at various temperatures (300, 273, and 90 °K) is studied. Selection rules are examined for matrix transition elements at extreme points for crystals with symmetry D2h16, C2v9, and C22corresponding to different states of SbSI during phase transitions. A comparison of experimental data with theoretical and group-theoretical analysis results made possible a conclusion on the character of the band spectrum.