

THE AUTOINTERCALATION PHENOMENON
IN LAYERED $\text{In}_x\text{Tl}_{1-x}\text{I}$ CRYSTALS

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S u m m a r y

In the layered crystals of solid solutions $\text{In}_x\text{Tl}_{1-x}\text{I}$, we have found significant changes in the structure of polarized IR absorption spectra depending on the content of the Tl component. These changes are related both to a break in the solid solubility of substitution in sandwich layers In-Tl-In and the entrance of ions Tl into interstices (autointercalation). The role of free carriers in the mechanism of structural transformations is discussed.