ON THE INDEX OF REFRACTION AND SYMMETRY OF IRRADIATED CRYSTALS OF TRIGLYCINSULPHATE

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S u m m a r y

The spectral and dose changes of the indices of refraction δn (λ, D) of ferroelectric crystals triglicinsulphate (TGS) by radiation with fixed doses of γ-radiation within the limits 0 – 16 Mp are researched. It is displayed that radiative changes of the indices of refraction of TGS are considerable ($\delta n / \delta D \sim 4 \cdot 10^{-4}$ Mp^{-1}) and spectrally sensitive, their increase in UV and decrease in IR are connected with creation of radiative bands of absorption, and the description of the electrooptical effect on the basis of the phenomenological theory foresees a decrease of the symmetry of crystals TGS under radiation damage. The spectral change of the sign of electrooptical coefficients is explained by the field turning of axes of the indicatrix on the cross or asymmetric dispersion.