physica status solidi a applications and materials science
1974, Volume 21, Number 2, pag. 617-622

Photoelectrical properties of a Au-$CdIn_2S_4$ surface-barrier diode

Radautsan S. I., Molodyan I. P., Bulyarskii S. V., Syrbu N. N., Tezlevan V. E.

https://doi.org/10.1002/pssa.2210210226

Abstract

The photoelectrical properties of Schottky barriers Au-$CdIn_2S_4$ in a broad energy region have been considered. The optical direct and indirect transitions and the spin-orbit splittings of zones $\Gamma_{15}(\Gamma_7)$, $\Gamma_{15}(\Gamma_8)$ in $L_1(L_6)$ and $\Gamma_1(\Gamma_6)$ have been revealed. The fine structure in the differential spectra of photoconductivity due to the phonons at the edge and in the centre of the Brillouin zone were observed.