

BAND STRUCTURE, MECHANISM
OF DISPERSION AND KINETIC PHENOMENA
IN CRYSTALS OF *n*-PbTe

*D. Freik, M. Halushchak*¹, *L. Nykyruy,*
V. Klanichka, V. Shperun

Stefanyk Precarpathian University,
Physics and Chemistry Institute
(57, *Shevchenko Str., Ivano-Frankivsk 76000,*
Ukraine),

¹Ivano-Frankivsk State Technical University
of Oil and Gas
(15, *Karpatska Str., Ivano-Frankivsk 76000, Ukraine*)

S u m m a r y

The main mechanisms of dispersion of charge carriers in crystals of *n*-PbTe at the 4.2, 77, and 300 K in the concentration interval $10^{18} - 10^{20} \text{ cm}^{-3}$ with the parabolic and nonparabolic laws of dispersion are investigated.