

COMPOSITION
DEPENDENCE AND INTERRELATION
BETWEEN OPTICAL-REFRACTOMETRIC
AND THERMOOPTICAL PARAMETERS
OF VITREOUS ALLOYS $(As_2S_3)_{100-x}(As_2Se_3)_x$

*I.I. Shpak, I.P. Studenyak, D.G. Semak, M. Kranjcec¹,
V.V. Rubish², V.M. Rubish²*

Uzhgorod National University
(Uzhgorod 88000, Ukraine;
e-mail: shpak@univ.uzhgorod.ua),

¹University of Zagreb,
Faculty of Geotechnical Engineering
(Zagreb 42000, Croatia),

²Uzhgorod Scientific and Technical Center of Materials
for Optical Data Carriers Institute for Information
Recording, Nat. Acad. Sci. of Ukraine
(Uzhgorod 88000, Ukraine)

S u m m a r y

The influence of the compositional disordering in the vitreous alloys $(As_2S_3)_{100-x}(As_2Se_3)_x$ on their optical absorption edge and the dispersion of the refractive index has been studied. The additive values of As, S, and Se refractions in those alloys have been determined experimentally. The interrelations between the composition dependences of optical pseudogap, refractive index, and refractions of initial components have been observed.