

A MODEL OF THE FORMATION
OF INHOMOGENEOUS MODIFIED
STRUCTURES ON THE BASIS OF GLASSY Ge_2S_3

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S u m m a r y

The computer simulation of the formation of inhomogeneous modified structures based on glassy Ge_2S_3 with given concentration gradient over the thickness has been carried out. Both technological conditions and the atomic flow source of a modifier are taken into account. The formation of an inhomogeneous gradient structure is described by nonlinear differential equations which take into account the dynamics of the number of particles of the modifier at the expense of the atomic flow source, structural inhomogeneity (the presence of vacancies and micropores), and diffusion of particles.