

THE INFLUENCE OF A FOCUSED LOAD  
ON FORMATION OF X-RAY THICKNESS  
INTENSITY OSCILLATIONS

*I.M. Fodchuk, M.D. Raransky,  
Ya.M. Struk, I.V. Lytvynchuk*

Yurij Fedkovych Chernivtsi National University  
(2, Kotsyubynsky Str., Chernivtsi 58012, Ukraine)

S u m m a r y

The influence of weak and strong distortions caused by a focused load on formation of moire intensity oscillations in wedge-shaped Si and Ge crystals is investigated experimentally and by a numerical solution of the Takagi equations. Scattering processes that stipulate a bending and focusing (defocusing) of X-ray trajectories influence the formation of moire fringes in the case of weak strains and the processes of interbranch scattering  $\sim$  in the case of strong strains.