

ACOUSTIC EMISSION OF LIGHT-EMITTING
STRUCTURES ON THE A^3B^5 BASE
DETERMINED BY DIRECT CURRENT

V. P. Veleshchuk, O. V. Lyashenko

Taras Shevchenko Kyiv National University,
Faculty of Physics
(6, Academician Glushkov Prosp., Kyiv 03127, Ukraine;
e-mail: *lyashenk@mail.univ.kiev.ua*)

S u m m a r y

The dynamics of acoustic emission (AE) of epitaxial light-emitting structures on the basis of A^3B^5 compounds is studied. It is shown that the processes of aging reduce the summary AE and intensity of AE and raise the threshold of appearance of AE and a magnification of the velocity of change of a direct current through a junction leads to a bias of the threshold occurrence of appearance of AE to the area of smaller currents, diminution of the currents relevant to fracture, and increase of the intensity of AE and the summary emission.