

MODULATION OF THE DIRECTION
OF RADIATION EMITTED BY AN InAs/GaAs
HETEROLASER WITH InAs QUANTUM DOTS
UNDER THE INFLUENCE OF ACOUSTIC WAVE

R.M. Peleshchak, O.O. Dan'kiv, O.V. Kuzyk

Ivan Franko Drohobych State Pedagogical University
(24, Ivan Franko Str., Drohobych 82100, Lviv region,
Ukraine; e-mail: peleshchak@rambler.ru)

S u m m a r y

A theoretical model describing the modulation of a direction of radiation emitted by an InAs/GaAs heterolaser with InAs quantum dots under the influence of an acoustic wave has been developed. The character of the dependences of the emission deviation angle on the acoustic wave frequency and the geometric sizes of quantum dots has been determined.