

THE INFLUENCE  
OF THE NANOHETEROSTRUCTURE  
GROWTH TEMPERATURE ON THE OPTICAL  
GAP OF A QUANTUM DOT

*R.M. Peleshchak, O.O. Dan'kiw*

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

S u m m a r y

In the framework of the deformation potential model, the influence of the growth temperature of a heterostructure with quantum dots (QDs) and of the QD dimensions on the width of the QD optical gap has been studied. The optical gap has been found to become narrower as the growth temperature of the heterostructure increases.