Energía de enlace de excitones en pozos cuánticos de Gaas /Ga1-xal xas [

2007

text (article)

Analítica

The use of low dimensional structures is a key technological element in the creation of new quantum functional devices in the development of the next generation of the electronic, photonic, and spintronic integrated circuits and many other nanoscaled devices that are necessary for the information society of 21st century. One of the most important optical properties is the photoluminescence produced by agents as impurities and excitons in GaAs quantum wells, wires, and dots with nanometric dimensions under the influence of electric and magnetic fields and external pressures. The binding energy for the first three excitonic states in GaAs/Ga1-xA1xAs quantum wells describing the system through quantum theory in the effective mass approximation and using the variational method is presented
The use of low dimensional structures is a key technological element in the creation of new quantum functional devices in the development of the next generation of the electronic, photonic, and spintronic integrated circuits and many other nanoscaled devices that are necessary for the information society of 21st century. One of the most important optical properties is the photoluminescence produced by agents as impurities and excitons in GaAs quantum wells, wires, and dots with nanometric dimensions under the influence of electric and magnetic fields and external pressures. The binding energy for the first three excitonic states in GaAs/Ga1-xA1xAs quantum wells describing the system through quantum theory in the effective mass approximation and using the variational method is presented

Título: Energía de enlace de excitones en pozos cuánticos de Gaas/Ga1-xal xas electronic resource]

Editorial: 2007

Tipo Audiovisual: estructuras de baja dimensionalidad nanotecnología excitón pozo cuántico hilo cuántico punto cuántico low dimensional structures nanotechnology exciton quantum well quantum wire quantum dot

Documento fuente: Revista EIA, ISSN 1794-1237, Nº. 7, 2007, pags. 121-126

Nota general: application/pdf

Restricciones de acceso: Open access content. Open access content star

Lengua: Spanish

Enlace a fuente de información: Revista EIA, ISSN 1794-1237, Nº. 7, 2007, pags. 121-126
