



Optica Applicata 2005(Vol.35), No.3, pp. 663-667

Applications of functionally graded materials in optoelectronic devices

Mateusz WOSKO, Bogdan PASZKIEWICZ, Tomasz PIASECKI, Adam SZYSZKA, Regina PASZKIEWICZ, Marek TLACZALA

SEARCH

[Advanced search](#)

Keywords

functionally graded materials (FGM), functionally graded materials, $A^{III}-B^V$, optoelectronic

Abstract

Up to now research on functionally graded materials (FGM) was focused on their mechanical and strength properties. The paper presents a review of possible applications of $A^{III}-B^V$ group materials with graded composition for optoelectronic devices, such as *p-i-n* diodes, heterojunction photodetectors and lasers. Nowadays, there are no optoelectronic devices fabricated from FGM. The theoretical simulation showed that devices with FGM active region would have superior characteristics compared with classical constructions.



51.1 kB

[Back to list](#)

© Copyright 2007 T.Przerwa-Tetmajer All Rights Reserved 2007

stat4u

About Optica Applicata
Current issue
Browse archives
Search
Editorial Board
Instructions for Authors
Ordering
Contact us