

Semiconductor superlattice photodetectors

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Technical progress made in the study of superlattice photoconductors is summarized and papers submitted for publication are listed. Since the quantum-well regions may contain several subbands, each of which may be occupied by electrons depending on the doping concentrations, it is important to include the multi-subbands in calculating the impact ionization rate. The electrons occupying the higher subbands require a smaller amount of energy to get out of the quantum well; thus, those higher level subband electrons contribute significantly to the impact ionization rate. The results of the subbands have been calculated. Results concerning the nonparabolicity effect of the band structure, the effect of the quantum-well size, and the effect of the band-edge discontinuity and doping are also summarized. Chuang, S. L. and Hess, K. and Coleman, J. J. and Leburton, J. P. Unspecified Center NASA-CR-180300, NAS 1.26:180300 NAG1-500 BAND STRUCTURE OF SOLIDS; IONIZATION; PHOTOMETERS; SUPERLATTICES; ALUMINUM GALLIUM ARSENIDES; CONDUCTION BANDS; DOPED CRYSTALS; ELECTRON DISTRIBUTION; ELECTRONS; GALLIUM ARSENIDES; HETEROJUNCTIONS; PHOTOMULTIPLIER TUBES; QUANTUM MECHANICS

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Eng. 56 097101. Advances in Infrared Photodetectors - Nanowire metal-semiconductor-metal photodetectors 100-2000 A/W at -1 V bias in nanowires with the GaN/AlN superlattice (values corresponding.. [36] Dai Z R, Pan Z W and Wang Z L 2003 Novel Nanostructures of Functional Oxides. Center for Quantum Devices - in the News - Written by expert researchers working on the frontlines of the field, this book.. Inc. Type-II Superlattice Semiconductors for Infrared Photodetectors E. Molecular Antimonide-based Infrared Detectors: A New Perspective - A superlattice is a periodic structure of layers of two (or more) materials. Typically, the thickness If the superlattice is made of two semiconductor materials with different band gaps, each.. "Short-period InAs•GaSb type-II superlattices for mid-infrared detectors". Create a book & middle dot; Download as PDF & middle dot; Printable version InAs/GaSb Type-II Superlattice Detectors - Hindawi - The novel semiconductor lasers photodetectors; type-II InAs/GaSb superlattice IR detector and. The semiconductor laser based on GaAs and GaAsP p-n. Nanotechnology for Microelectronics and Photonics - Veja grãitís o arquivo Semiconductor Nanostructures for Optoelectronic No part of this book may be reproduced or utilized in any form or by any means, 269 7.7.3 Device Results 271 7.8 GaSb/InAs Type II Superlattice for IR Photodetectors MSM Photodetectors Based on InP/InGaAs 2DEG Structures - Print Book & E-Book. ISBN 9780123813374 View all volumes in this series: Semiconductors and Semimetals. Type-II Superlattice Infrared Detectors. 1.

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