

OPTOELECTRONIC PROPERTIES of SEMICONDUCTORS and SUPERLATTICES

M. O. Manasreh, series editor

Volume 1

LONG WAVELENGTH INFRARED DETECTORS

Edited by

Manijeh Razeghi



CRC Press
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Long Wavelength Infrared Detectors

M. Razeghi



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Detectors Antoni Rogalski,1994 *Handbook of Infrared Detection Technologies* M. Henini,M Razeghi,2002-12-11 Introduction Comparison of Photon and Thermal Detectors Performance GaAs AlGaAs Based Quantum Well Intra red Photodetector Focal Plane Arrays GaInAs P Based Qwips on GaAs InP and Si Substrates for Focal Plane Arrays InAs Galn Sb Superlattices A Promising Material System for Infra red Detection GaSb InAs Superlattices for Infra red FPAs MCT Properties Growth Methods and Characterization HgCdTe 2D Arrays Technology and Performance Limits Status of HgCdTe MBE Technology Silicon Infra red Focal Plane Arrays PolySiGe Uncooled Microbolometers for Thermal Infra red Detection

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Semiconductor Quantum Wells and Superlattices for Long-wavelength Infrared Detectors Mahmoud Omar Manasreh, 1993 Provides a basic understanding of how semiconductor quantum wells and superlattices can be used for long wavelength infrared detectors and related systems It represents a step towards a knowledge of novel structures that could be used for high performance infrared detectors and imaging rays *DDC Retrieval and Indexing Terminology* Defense Documentation Center (U.S.), 1975 *2D Materials for Infrared and Terahertz Detectors* Antoni Rogalski, 2020-10-25 *2D Materials for Infrared and Terahertz Detectors* provides an overview of the performance of emerging detector materials while also offering for the first time a comparison with traditional materials used in the fabrication of infrared and terahertz detectors Since the discovery of graphene its applications to electronic and optoelectronic devices have been intensively researched The extraordinary electronic and optical properties allow graphene and other 2D materials to be promising candidates for infrared IR and terahertz THz photodetectors and yet it appears that the development of new detectors using

these materials is still secondary to those using traditional materials This book explores this phenomenon as well as the advantages and disadvantages of using 2D materials Special attention is directed toward the identification of the most effective hybrid 2D materials in infrared and terahertz detectors as well as future trends Written by one of the world s leading researchers in the field of IR optoelectronics this book will be a must read for researchers and graduate students in photodetectors and related fields Features Offers a comprehensive overview of the different types of 2D materials used in fabrication of IR and THz detectors and includes their advantages disadvantages The first book to compare new detectors to a wide family of common commercially available detectors that use traditional materials

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