

OPTOELECTRONIC PROPERTIES of SEMICONDUCTORS and SUPERLATTICES

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Volume 1

LONG WAVELENGTH INFRARED DETECTORS

Edited by

Manijeh Razeghi



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Long Wavelength Infrared Detectors

Antonio Rogalski



Long Wavelength Infrared Detectors:

Long Wavelength Infrared Detectors Razeghi,1997-11-21 This work presents a comprehensive overview of the development of new generations of infrared detectors based on artificially synthesized quantum structures Featuring contributions from researchers working at the cutting edge of this field this volume will become an essential reference for advanced graduate students and researchers alike *Long Wavelength Infrared Detectors* Taylor & Francis

Group,2020-12-18 **Long Wavelength Infrared Detectors** Razeghi,2020-03-09 This timely work presents a comprehensive overview of the development of new generations of infrared detectors based on artificially synthesized quantum structures The growth of quantum wells and superlattices is well documents in this volume as are the principal new superlattice technologies for long wavelength infrared detection Featuring insightful contributions from researchers working at the cutting edge of this exciting field this volume is sure to become an essential reference for advanced graduate students and researchers alike

Long Wavelength Infrared Detec M. Razeghi,1996 This series focuses on electro optical applications of advance semiconductors such as quantum wells and superlattices Volume 1 is dedicated to the long wavelength infrared detectors based on III V Semiconductor quantum wells and superlattices as a new generation for infrared detectors based on artificially synthesized quantum structures The chapters are contributed by the leading researchers at some of the best industrial academic and government laboratories in the world Although written primarily as a reference work this book is appropriate as a supplementary text for graduate courses in this area **Proceedings of the Sixth International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications** Sheng S. Li,1999

III-V Multiple Quantum Well Long Wavelength Infrared Detectors Deepak Kumar Sengupta,1997 *Proceedings of the Third International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications III* Sheng S. Li,1995

Proceedings of the Fifth International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications Sheng S. Li,H. C. Liu,M. Z. Tidrow,1997 *Proceedings of the First International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications* Farhad Radpour,Victor R. McCrary,1995

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New Ternary Alloy Systems for Infrared 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 Infra red Silicon Germanium Detectors

Fundamentals of Spin Filtering in Ferromagnetic Metals with Application to Spin Sensors Infrared Detectors Antonio Rogalski, 2010-11-15 Completely revised and reorganized while retaining the approachable style of the first edition Infrared Detectors Second Edition addresses the latest developments in the science and technology of infrared IR detection Antoni Rogalski an internationally recognized pioneer in the field covers the comprehensive range of subjects necessary to un

Recent Developments in the Field of IR Detectors , 2025-08-01 Recent Developments in the Field of IR Detectors Volume 118 in the Semiconductors and Semimetals series highlights new advances in the field with this new volume presenting interesting chapters including Type II superlattice unipolar barrier infrared detectors Fabrication and characterization of Ga free T2SL structure for high performance infrared photodetector Extracting Material and Structural Properties from Conventional Test Data of III V Superlattice Detectors Antimony based Type II superlattice infrared detectors Focal Plane Arrays Near room temperature InAsSb based infrared photodetectors and more Other sections cover Interband cascade infrared Photodetectors and Engineering of Superlattice Based Avalanche Photodiodes Provides the latest information on Recent Developments in the Field of IR Detectors research Offers outstanding and original reviews on a range of Recent Developments in the Field of IR Detectors research topics Serves as an indispensable reference for researchers and students alike **Proceedings of the Third International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications III** Sheng S. Li, 1995 Infrared and Terahertz Detectors, Third Edition Antoni

Rogalski, 2019-01-10 This new edition of Infrared and Terahertz Detectors provides a comprehensive overview of infrared and terahertz detector technology from fundamental science to materials and fabrication techniques It contains a complete overhaul of the contents including several new chapters and a new section on terahertz detectors and systems It includes a new tutorial introduction to technical aspects that are fundamental for basic understanding The other dedicated sections focus on thermal detectors photon detectors and focal plane arrays *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

The book delves into Long Wavelength Infrared Detectors. Long Wavelength Infrared Detectors is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Long Wavelength Infrared Detectors, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Long Wavelength Infrared Detectors
 - Chapter 2: Essential Elements of Long Wavelength Infrared Detectors
 - Chapter 3: Long Wavelength Infrared Detectors in Everyday Life
 - Chapter 4: Long Wavelength Infrared Detectors in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Long Wavelength Infrared Detectors. The first chapter will explore what Long Wavelength Infrared Detectors is, why Long Wavelength Infrared Detectors is vital, and how to effectively learn about Long Wavelength Infrared Detectors.
3. In chapter 2, the author will delve into the foundational concepts of Long Wavelength Infrared Detectors. The second chapter will elucidate the essential principles that must be understood to grasp Long Wavelength Infrared Detectors in its entirety.
4. In chapter 3, this book will examine the practical applications of Long Wavelength Infrared Detectors in daily life. The third chapter will showcase real-world examples of how Long Wavelength Infrared Detectors can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Long Wavelength Infrared Detectors in specific contexts. The fourth chapter will explore how Long Wavelength Infrared Detectors is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Long Wavelength Infrared Detectors. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Long Wavelength Infrared Detectors.

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Long Wavelength Infrared Detectors Introduction

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