

SEMICONDUCTORS AND SEMIMETALS

VOLUME 21

Hydrogenated Amorphous Silicon

Volume Editor Jacques I. Pankove

Part D

Device Applications



Semiconductors And Semimetals Volume 7 Applications And Devices Part A

CL Gary



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Semiconductors and Semimetals, 1971-11-12 **Semiconductors and Semimetals** Semiconductors and Semimetals: Device applications Jacques I. Pankove, 1984 Semiconductors and Semimetals Jacques I. Pankove, 1984-10-11 **Semiconductors and Semimetals** **Semiconductors and Semimetals** Robert K. Willardson, Albert C. Beer, 1966

Synthesis and Applications of Nanocarbons Jean-Charles Arnault, Dominik Eder, 2020-08-28 A crucial overview of the cutting edge in nanocarbon research and applications In *Synthesis and Applications of Nanocarbons* the distinguished authors have set out to discuss fundamental topics synthetic approaches materials challenges and various applications of this rapidly developing technology Nanocarbons have recently emerged as a promising material for chemical energy environmental and medical applications because of their unique chemical properties and their rich surface chemistries This book is the latest entry in the Wiley book series *Nanocarbon Chemistry and Interfaces* and seeks to comprehensively address many of the newly surfacing areas of controversy and development in the field This book introduces foundational concepts in nanocarbon technology hybrids and applications while also covering the most recent and cutting edge developments in this area of study *Synthesis and Applications of Nanocarbons* addresses new discoveries in the field including Nanodiamonds Onion like carbons Carbon nanotubes Fullerenes Carbon dots Carbon fibers Graphene Aerographite This book provides a transversal view of the various nanocarbon materials and hybrids and helps to share knowledge between the communities of each material and hybrid type **Physics of Nonmetallic Thin Films** C. H. S. Dupuy, A. Cachard, 2012-12-06 For several years now the intense development in the field of microelectronics the interest in coating materials and activity in integrated optics have produced many advances in the field of thin solid film The research activity has become so intensive and so broad that it is necessary to divide the field into metallic and non metallic thin films A summer school in the area of non metallic thin films appeared to be a very fruitful concept and hence in October 1973 A S I M S made a proposal to N A T O to hold this second summer school in Corsica in September 1974 The basic idea behind this summer school was essentially to stress and synthesize physical properties and structure of non metallic thin films The main reason for this was the feeling that many laboratories are very specialized and that few engage in both physical and structural analysis of these films The program included a large section on physical studies electrical transport interface effects switching mechanical and optical There was also a large section o characterization crystal structure chemical composition stoichiometry is always a difficult problem bonding and electronic structure **Classical to Quantum Transport in Multi-Dimensional Field Effect Transistors** Naveen Kumar, Prateek Kumar, Ankit Dixit, Prabhat Singh, 2025-09-30 *Classical to Quantum Transport in Multi Dimensional Field Effect Transistors* offers a wide range of topics with attractive images and informative explanations It begins with an exploration of the fundamentals of field effect transistor FET functioning emphasizing how behavior is governed by classical models As the semiconductor industry pushes the boundaries of miniaturization and performance Multi

Dimensional Field Effect Transistors MuDFETs and emerging material platforms are redefining the foundations of modern electronics This book offers a deep and insightful journey through the evolving landscape of advanced FET architectures from classical conduction models to quantum and ballistic transport regimes Authored by experts across academia and research institutions this book offers in depth discussions on Multi Dimensional and Junctionless FETs Design innovations enabling superior control scaling and performance 2D Materials Transition Metal Dichalcogenides TMDCs Harnessing atomically thin semiconductors for next generation device engineering Nanosheet Transistors Unlocking new dimensions in charge transport and quantum confinement Charge transport mechanisms from classical semiclassical to ballistic regimes in nanosheet and nanowire FETs Tunnel Field Effect Transistor TFET Based Biosensors Cutting edge developments in label free ultra sensitive detection for healthcare and environmental monitoring Integration of FET platforms in nonlinear and quantum photonics using silicon nitride waveguides Whether you re exploring the quantum limits of device physics or developing real world sensing solutions this collection bridges theory and application in one compelling volume With contributions from leading researchers and technologists this book serves as a vital reference for academics graduate students and professionals working in nanoelectronics semiconductor devices biosensors and photonic field

Electron Beam Testing Technology John T.L. Thong,2013-06-29 Although exploratory and developmental activity in electron beam testing EBT 25 years it was not had already been in existence in research laboratories for over until the beginning of the 1980s that it was taken up seriously as a technique for integrated circuit IC testing While ICs were being fabricated on design rules of several microns the mechanical needle probe served quite adequately for internal chip probing This scenario changed with growing device complexity and shrinking geometries prompting IC manufacturers to take note of this new testing technology It required several more years and considerable investment by electron beam tester manufacturers however to come up with user friendly automated systems that were acceptable to IC test engineers These intervening years witnessed intense activity in the development of instrumentation testing techniques and system automation as evidenced by the proliferation of technical papers presented at conferences With the shift of interest toward applications the technology may now be considered as having come of age

Photonic Devices and Systems Hunsperger,1994-07-15 This work describes all the major devices used in photonic systems It provides a thorough overview of the field of photonics detailing practical examples of photonic technology in a wide range of applications Photonic systems and devices are discussed with a mathematical rigor that is precise enough for design purposes yet highly readable

High Speed Compound Semiconductor Devices for Wireless Applications and State-of-the-Art Program on Compound Semiconductors (XXXIII) A. G. Baca,2000 The proceedings were published before the two symposia actually took place and some of the papers presented were not received in time The 21 that did make it discuss compound semiconductors from perspectives of recent developments in materials growth characterization processing device fabrication and reliability Among the specific topics are the non crystallographic wet

etching of gallium arsenide fabricating an integrated optics One to Two optical switch and the fabrication and materials characterization of pulsed laser deposited nickel silicide ohmic contacts to 4H n SiC Annotation copyrighted by Book News Inc Portland OR Heterostructures and Quantum Devices Norman G. Einspruch, William R. Frensley, 2014-06-28

Heterostructure and quantum mechanical devices promise significant improvement in the performance of electronic and optoelectronic integrated circuits ICs Though these devices are the subject of a vigorous research effort the current literature is often either highly technical or narrowly focused This book presents heterostructure and quantum devices to the nonspecialist especially electrical engineers working with high performance semiconductor devices It focuses on a broad base of technical applications using semiconductor physics theory to develop the next generation of electrical engineering devices The text covers existing technologies and future possibilities within a common framework of high performance devices which will have a more immediate impact on advanced semiconductor physics particularly quantum effects and will thus form the basis for longer term technology development *Narrow-gap Semiconductor Photodiodes* Antoni

Rogalski, Krzysztof Adamiec, Jaroslaw Rutkowski, 2000 In this monograph investigations of the performance of narrow gap semiconductor photodiodes are presented and recent progress in different IR photodiode technologies is discussed HgCdTe photodiodes InSb photodiodes alternatives to HgCdTe III V and II VI ternary alloy photodiodes lead chalcogenide photodiodes and a new class of photodiodes based on two dimensional solids Investigations of the performance of photodiodes operated in different spectral regions are presented **Hybrid Plasmonics for Energy Harvesting and Sensing of Radiation and Heat** Mina Shiran Chaharsoughi, 2020-02-03

The special optical properties of subwavelength metallic structures have opened up for numerous applications in different fields The interaction of light with metal nanostructures leads to the excitation of collective oscillations of conduction band electrons known as plasmons These plasmon excitations are responsible for the high absorption and high scattering of light in metallic nanostructures High absorption of light and the subsequent temperature increase in the nanostructures make them suitable as point like heat sources that can be controlled remotely by light The research presented in this thesis focuses on the development and studies of hybrid devices that combine light induced heating in plasmonic nanostructures with other materials and systems Particular focus is put on hybrid organic inorganic systems for applications in energy harvesting as well as in heat and radiation sensing Harvesting energy from light fluctuations was achieved in a hybrid device consisting of plasmonic gold nanodisk arrays and a pyroelectric copolymer In this concept fast and efficient light induced heating in the gold nanodisks modulated the temperature of the pyroelectric layer which could be used to extract electrical energy from fluctuations in simulated sunlight Integrating plasmonic nanostructures with complementary materials can also provide novel hybrid sensors for monitoring of temperature heat flux and radiation In this thesis work a hybrid sensor was designed based on the combination of a plasmonic gold nanohole layer with a pyroelectric copolymer and an ionic thermoelectric gel The gold nanohole arrays acted both as broadband light

absorbers in the visible to near infrared spectral range of the solar spectrum and also as one of the electrodes of the sensor. In contrast to the constituent components when used separately the hybrid sensor could provide both fast and stable signals upon heat or radiation stimuli as well as enhanced equilibrium signals. Furthermore a concept for heat and radiation mapping was developed that was highly sensitive and stable despite its simple structure. The concept consisted of a gel like electrolyte connecting two separated metal nanohole electrodes on a substrate. Resembling traditional thermocouples this concept could autonomously detect temperature changes but with several orders of magnitudes higher sensitivity. Owing to its promising sensing properties as well as its compatibility with inexpensive mass production methods on flexible substrates such concept may be particularly interesting for electronic skin applications for health monitoring and for humanoid robotics. Finally we improved the possibilities for the temperature mapping of the concept by modifying the structure from lateral to vertical form. Similar to the lateral device the vertical temperature sensor showed high temperature sensitivity and stability in producing signals upon temperature changes.

Fundamentals of Photonics Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics. Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter. Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications. The third edition features an entirely new chapter on the optics of metals and plasmonic devices. Each chapter contains highlighted equations exercises problems summaries and selected reading lists. Examples of real systems are included to emphasize the concepts governing applications of current interest. Each of the twenty four chapters of the second edition has been thoroughly updated.

Silicon-Germanium Strained Layers and Heterostructures M. Willander, Suresh C. Jain, 2003-10-02 The study of Silicon Germanium strained layers has broad implications for material scientists and engineers in particular those working on the design and modelling of semiconductor devices. Since the publication of the original volume in 1994 there has been a steady flow of new ideas new understanding new Silicon Germanium SiGe structures and new devices with enhanced performance. Written for both students and senior researchers the 2nd edition of Silicon Germanium Strained Layers and Heterostructures provides an essential up date of this important topic describing in particular the recent developments in technology and modelling. Fully revised and updated 2nd edition incorporating important recent breakthroughs and a complete literature review. The extensive bibliography of over 400 papers provides a comprehensive and coherent overview of the subject. Appropriate for students and senior researchers.

Festkörperprobleme P. Grosse,2007-10-01 *Compound Semiconductor Transistors* Sandip Tiwari,1993

MicroLED Devices and Systems Khaled Ahmed,2024-07-31 MicroLEDs Devices and Systems introduces a theoretical framework validated by experiments in the form of a number of white box analytic or semi analytic mathematical models that are based on physics It aims to assist in the design and manufacture of the best MicroLED devices for various applications such as mobile displays TV displays augmented reality and data communication systems This resource demonstrates the importance of MicroLEDs in addressing power consumption in mobile displays brightness in TV displays augmented reality and parallel optical interconnect in data centers and artificial intelligence computer systems With the mobile display industry s revenue exceeding 50 billion in 2020 and projected to be a significant portion of the display market by 2026 the importance of MicroLED technology is highlighted in this resource It provides models for display systems and data communication systems to help system engineers understand and assess the gaps between commercially available MicroLEDs versus what is needed for a specific system Furthermore the book addresses the emerging role of MicroLEDs in data communication highlighting their potential to improve energy consumption data rate latency and cost in semiconductor chip communication This book is intended for engineers who desire to begin with physics based intuition to design MicroLED based systems within 80% accuracy then follow with running experiments and more sophisticated models to capture the top 20% of design accuracy This 80/20 approach is proven to work in many fields including the semiconductor industry **Encyclopedia of Optical and Photonic Engineering (Print) - Five Volume Set** Craig Hoffman,Ronald Driggers,2015-09-22 The first edition of the Encyclopedia of Optical and Photonic Engineering provided a valuable reference concerning devices or systems that generate transmit measure or detect light and to a lesser degree the basic interaction of light and matter This Second Edition not only reflects the changes in optical and photonic engineering that have occurred since the first edition was published but also Boasts a wealth of new material expanding the encyclopedia s length by 25 percent Contains extensive updates with significant revisions made throughout the text Features contributions from engineers and scientists leading the fields of optics and photonics today With the addition of a second editor the Encyclopedia of Optical and Photonic Engineering Second Edition offers a balanced and up to date look at the fundamentals of a diverse portfolio of technologies and discoveries in areas ranging from x ray optics to photon entanglement and beyond This edition s release corresponds nicely with the United Nations General Assembly s declaration of 2015 as the International Year of Light working in tandem to raise awareness about light s important role in the modern world Also Available Online This Taylor E mail e reference taylorandfrancis.com International Tel 44 0 20 7017 6062 E mail online sales tandf.co.uk High Speed Heterostructure Devices ,1994-07-06 Volume 41 includes an in depth review of the most important high speed switches made with heterojunction technology This volume is aimed at the graduate student or working researcher who needs a broad overview and an introduction to current literature The first complete review of InP based HFETs and complementary HFETs which

promise very low power and high speed Offers a complete three chapter review of resonant tunneling Provides an emphasis on circuits as well as devices

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