



# Graphene Fundamentals Devices And Applications

**Chandra Sekhar Rout,Dattatray J.  
Late,Hywel Morgan**



## **Graphene Fundamentals Devices And Applications:**

**Graphene** Serhii Shafraniuk, 2015-05-05 Graphene is the first example of two dimensional materials and is the most important growth area of contemporary research It forms the basis for new nanoelectronic applications Graphene which comprises field effect structures has remarkable physical properties This book focuses on practical applications determined by the unique properties of gr

**Nanoelectronics and Materials Development** Abhijit Kar, 2016-07-27 The current edited book presents some of the most advanced research findings in the field of nanotechnology and its application in materials development in a very concise form The main focus of the book is dragged toward those materials where electronic properties are manipulated for development of advanced materials We have discussed about the extensive usage of nanotechnology and its impact on various facets of the chip making practice from materials to devices such as basic memory quantum dots nanotubes nanowires graphene like 2D materials and CIGS thin film solar cells as energy harvesting devices Researchers as well as students can gain valuable insights into the different processing of nanomaterials characterization procedures of the materials in nanoscale and their different functional properties and applications

**Advanced Methodologies and Technologies in Engineering and Environmental Science** Khosrow-Pour, D.B.A., Mehdi, 2018-09-07 The ever increasing awareness and growing focus on environmental issues such as climate change and energy use is bringing about an urgency in expanding research to provide possible solutions to these problems Through current engineering research and emerging technologies scientists work to combat modern environmental and ecological problems plaguing the globe Advanced Methodologies and Technologies in Engineering and Environmental Science provides emerging research on the current and forthcoming trends in engineering and environmental sciences to resolve several issues plaguing researchers such as fossil fuel emission and climate change While highlighting these challenges including chemical toxicity environmental responsibility readers will learn how engineering applications can be used across disciplines to aid in reducing environmental hazards This book is a vital resource for engineers researchers professors academicians and environmental scientists seeking current research on how engineering tools and technologies can be applied to environmental issues

**Introduction to Optical and Optoelectronic Properties of Nanostructures** Vladimir V.

Mitin, Viacheslav A. Kochelap, Mitra Dutta, Michael A. Strosio, 2019-03-21 A rigorous guide providing a unified multidisciplinary treatment of the fundamentals of optical and optoelectronic nanostructures

**Spin Chemical Physics of Graphene** Elena Sheka, 2017-11-23 Graphene s nickname miracle material normally means the material superior properties However all these characteristics are only the outward manifestation of the wonderful nature of graphene The real miracle of graphene is that the specie is a union of two entities a physical and a chemical one each of which is unique in its own way The book concerns a very close interrelationship between graphene physics and chemistry as expressed via typical spin effects of a chemical physics origin Based on quantum chemical computations the book is nevertheless addressed to the

reflection of physical reality and it is aimed at an understanding of what constitutes graphene as an object of material science sci graphene on the one hand and as a working material high tech graphene for a variety of attractive applications largely discussed and debated in the press on the other The book is written by a user of quantum chemistry sufficiently experienced in material science and the chemical physics of graphene is presented as the user view based on results of extended computational experiments in tight connection with their relevance to physical and chemical realities The experiments have been carried out at the same theoretical platform which allows considering different sides of the graphene life at the same level in light of its chemical peculiarity

**Fundamental And Applied Problems In Terahertz-related Devices And Technologies** Taiichi Otsuji,Wojciech Knap,Maxim V Ryzhii,Michael S Shur,2025-05-27 The unique compendium provides a broad up to date perspective on THz science and technology enabling technology for 6G communication detection of biological and chemical hazardous agents cancer detection monitoring of industrial processes and products and detection of mines and explosives Contributed by eminent researchers this useful reference text links THz science and THz applications and combines a detailed review of the state of art with the most recent breakthrough research results

*Fundamentals and Sensing Applications of 2D Materials* Chandra Sekhar Rout,Dattatray J. Late,Hywel Morgan,2019-06-15 Fundamentals and Sensing Applications of 2D Materials provides a comprehensive understanding of a wide range of 2D materials Examples of fundamental topics include defect and vacancy engineering doping and advantages of 2D materials for sensing 2D materials and composites for sensing and 2D materials in biosystems A wide range of applications are addressed such as gas sensors based on 2D materials electrochemical glucose sensors biosensors enzymatic and non enzymatic and printed stretchable wearable and flexible biosensors Due to their sub nanometer thickness 2D materials have a high packing density thus making them suitable for the fabrication of thin film based sensor devices Benefiting from their unique physical and chemical properties e g strong mechanical strength high surface area unparalleled thermal conductivity remarkable biocompatibility and ease of functionalization 2D layered nanomaterials have shown great potential in designing high performance sensor devices Provides a comprehensive overview of 2D materials systems that are relevant to sensing including transition metal dichalcogenides metal oxides graphene and other 2D materials system Includes information on potential applications such as flexible sensors biosensors optical sensors electrochemical sensors and more Discusses graphene in terms of the lessons learned from this material for sensing applications and how these lessons can be applied to other 2D materials

**Fundamentals of Nanoscaled Field Effect Transistors** Amit Chaudhry,2013-04-23 Fundamentals of Nanoscaled Field Effect Transistors gives comprehensive coverage of the fundamental physical principles and theory behind nanoscale transistors The specific issues that arise for nanoscale MOSFETs such as quantum mechanical tunneling and inversion layer quantization are fully explored The solutions to these issues such as high technology strained Si technology alternate devices structures and graphene technology are also given Some case studies regarding the above issues and solution are also given

in the book **Selected Proceedings from the 232nd ECS Meeting: National Harbor, MD - Fall 2017**

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Kahrizi, Parsoua A. Sohi, 2020-11-26 This volume brings together several recent research articles in the field of nanophotonics. The editors have arranged the chapters in three main parts: quantum devices, photonic devices, and semiconductor devices. The chapters cover a wide variety of scopes in those areas including principles of plasmonic SPR, LSPR, and their applications; graphene-based nanophotonic devices; generation of entangled photons and quantum dots; perovskite solar cells; photo detachment and photoionization of two electrons systems; diffusion and intermixing of atoms in semiconductor crystals; lattice and molecular elastic and inelastic scattering including surface-enhanced Raman Scattering and their applications. It is our sincerest hope that science and engineering students and researchers could benefit from the new ideas and recent advances in the field that are covered in this book. **The Physics of Solids** J. B. Ketterson, 2016-10-06 This comprehensive text

covers the basic physics of the solid state starting at an elementary level suitable for undergraduates but then advancing in stages to a graduate and advanced graduate level. In addition to treating the fundamental elastic, electrical, thermal, magnetic, structural, electronic, transport, optical, mechanical, and compositional properties, we also discuss topics like superfluidity and superconductivity along with special topics such as strongly correlated systems, high-temperature superconductors, the quantum Hall effects, and graphene. Particular emphasis is given to so-called first-principles calculations utilizing modern density functional theory, which for many systems now allow accurate calculations of the electronic, magnetic, and thermal properties. **Handbook of Digital Twins** Zhihan Lyu, 2024-05-29 Over the last two decades, Digital Twins (DTs) have

become the intelligent representation of future development in industrial production and daily life. Consisting of over 50 chapters by more than 100 contributors, this comprehensive handbook explains the concept, architecture, design, specification, and application scenarios of DTs. As a virtual model of a process, product, or service to pair the virtual and physical worlds, DTs allow data analysis and system monitoring by using simulations. The fast-growing technology has been widely studied and developed in recent years. Featured with centralization, integrity, and dynamics, it is cost-effective to drive innovation and

performance Many fields saw the adaptation and implementation across industrial production healthcare smart city transportation and logistics World famous enterprises such as Siemens Tesla ANSYS and General Electric have built smart factories and pioneered digital production heading towards Industry 4.0 This book aims to provide an in depth understanding and reference of DTs to technical personnel in the field students and scholars of related majors and general readers interested in intelligent industrial manufacturing

Encyclopedia of Information Science and Technology, Fourth Edition  
 Khosrow-Pour, D.B.A., Mehdi, 2017-06-20 In recent years our world has experienced a profound shift and progression in available computing and knowledge sharing innovations These emerging advancements have developed at a rapid pace disseminating into and affecting numerous aspects of contemporary society This has created a pivotal need for an innovative compendium encompassing the latest trends concepts and issues surrounding this relevant discipline area During the past 15 years the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline The Encyclopedia of Information Science and Technology Fourth Edition is a 10 volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives applications and techniques contributed by thousands of experts and researchers from around the globe This authoritative encyclopedia is an all encompassing well established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings With critical perspectives on the impact of information science management and new technologies in modern settings including but not limited to computer science education healthcare government engineering business and natural and physical sciences it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library

*New Fluorinated Carbons: Fundamentals and Applications* Olga V. Boltalina, Tsuyoshi Nakajima, 2016-09-08 New Fluorinated Carbons Fundamentals and Applications is the second volume in Alain Tressaud's Progress in Fluorine Science series This volume provides an overview of cutting edge research and emerging applications using new fluorinated carbon materials such as fullerenes carbon nanotubes polycyclic aromatic molecules carbon nanofibers and graphenes Edited by recognized experts Olga Boltalina and Tsuyoshi Nakajima this book includes valuable chapters on syntheses structure analyses and chemical and physical properties of fluorinated carbons written by leaders in each respective field The work also explores the diverse practical applications of these functional materials from energy storage and energy conversion devices to molecular electronics and lubricants Features contributions by leading experts in the field Includes fundamental and current research on synthesis chemical and physical properties of fluorinated carbons Explores practical applications in energy electronics and lubricants Examines a range of new fluorinated carbon materials

*Phonon Thermal Transport in Silicon-Based Nanomaterials* Hai-Peng Li, Rui-Qin Zhang, 2018-09-08 In this Brief authors introduce the advance in theoretical and experimental techniques for determining the thermal conductivity in nanomaterials and focus on

review of their recent theoretical studies on the thermal properties of silicon based nanomaterials such as zero dimensional silicon nanoclusters one dimensional silicon nanowires and graphenelike two dimensional silicene The specific subject matters covered include size effect of thermal stability and phonon thermal transport in spherical silicon nanoclusters surface effects of phonon thermal transport in silicon nanowires and defects effects of phonon thermal transport in silicene The results obtained are supplemented by numerical calculations presented as tables and figures The potential applications of these findings in nanoelectrics and thermoelectric energy conversion are also discussed In this regard this Brief represents an authoritative systematic and detailed description of the current status of phonon thermal transport in silicon based nanomaterials This Brief should be a highly valuable reference for young scientists and postgraduate students active in the fields of nanoscale thermal transport and silicon based nanomaterials

**Graphene** Jamie H. Warner, Franziska Schaffel, Mark Rummeli, Alicja Bachmatiuk, 2012-11-17 Providing fundamental knowledge necessary to understand graphene s atomic structure band structure unique properties and an overview of groundbreaking current and emergent applications this new handbook is essential reading for materials scientists chemists and physicists Since the 2010 physics Nobel Prize awarded to Geim and Novosolev for their groundbreaking work isolating graphene from bulk graphite there has been a huge surge in interest in the area This has led to a large number of news books on graphene However for such a vast inflow of new entrants the current literature is surprisingly slight focusing exclusively on current research or books on previous hot topic allotropes of carbon This book covers fundamental groundwork of the structure property characterization methods and applications of graphene along with providing the necessary knowledge of graphene s atomic structure how it relates to its band structure and how this in turn leads to the amazing properties of graphene And so it provides new graduate students and post docs with a resource that equips them with the knowledge to undertake their research Discusses graphene s fundamental structure and properties acting as a time saving handbook for validated research Demonstrates 100 high quality graphical representations providing the reader with clear images to convey complex situations Reviews characterization techniques relevant to grapheme equipping the reader with experimental knowledge relevant for practical use rather than just theoretical understanding

*Nanoelectronic Device Applications Handbook* James E. Morris, Krzysztof Iniewski, 2017-11-22 Nanoelectronic Device Applications Handbook gives a comprehensive snapshot of the state of the art in nanodevices for nanoelectronics applications Combining breadth and depth the book includes 68 chapters on topics that range from nano scaled complementary metal oxide semiconductor CMOS devices through recent developments in nano capacitors and AlGaAs GaAs devices The contributors are world renowned experts from academia and industry from around the globe The handbook explores current research into potentially disruptive technologies for a post CMOS world These include Nanoscale advances in current MOSFET CMOS technology Nano capacitors for applications such as electronics packaging and humidity sensors Single electron transistors and other electron tunneling devices Quantum cellular automata

and nanomagnetic logic Memristors as switching devices and for memory Graphene preparation properties and devices Carbon nanotubes CNTs both single CNT and random network Other CNT applications such as terahertz sensors interconnects and capacitors Nano system architectures for reliability Nanowire device fabrication and applications Nanowire transistors Nanodevices for spintronics The book closes with a call for a new generation of simulation tools to handle nanoscale mechanisms in realistic nanodevice geometries This timely handbook offers a wealth of insights into the application of nanoelectronics It is an invaluable reference and source of ideas for anyone working in the rapidly expanding field of nanoelectronics

**Novel Applications of Carbon Based Nano-materials** Swamini Chopra,Kavita Pande,Vincent Shantha Kumar,Jitendra A. Sharma,2022-11-03 There s plenty of room at the bottom Richard Feynman s legendary sentence has practically teleported the world into the age of Nano technology over the last couple of decades As nano materials started drawing extensive attention the use of nano technology has opened many possibilities for humans Carbon based nano materials are an example of such prominent class of materials which have an enormous potential to fit a wide range of applications ranging from the energy sector to aircraft and automotive sector to bio medical sector etc The book Novel Applications of Carbon Based Nano Materials summarizes state of the art studies focusing on various applications of carbon allotropes considering the energy and environmental benefits and the socio economic impact of the developed systems all at the same time

**Electrical Processes in Organic Thin Film Devices** Michael C. Petty,2022-01-24 Electrical Processes in Organic Thin Film Devices A one stop examination of fundamental electrical behaviour in organic electronic device architectures In Electrical Processes in Organic Thin Film Devices From Bulk Materials to Nanoscale Architectures distinguished researcher Michael C Petty delivers an in depth treatment of the electrical behaviour of organic electronic devices focused on first principles The author describes the fundamental electrical behaviour of various device architectures and offers an introduction to the physical processes that play a role in the electrical conductivity of organic materials Beginning with band theory the text moves on to address the effects of thin film device architectures and nanostructures The book discusses the applications to devices currently in the marketplace like displays as well as those under development transistors solar cells and memories Electrical Processes in Organic Thin Film Devices also describes emerging organic thin film architectures and explores the potential for single molecule electronics and biologically inspired devices Finally the book also includes A detailed introduction to electronic and vibrational states in organic solids including classical band theory disordered semiconductors and lattice vibrations Comprehensive explorations of electrical conductivity including electronic and ionic processes carrier drift diffusion the Boltzmann Transport Equation excess carriers recombination doping and superconductivity An overview of important electro active organic materials like molecular crystals charge transfer complexes conductive polymers carbon nanotubes and graphene Practical considerations of defects and nanoscale phenomena including transport processes in low dimensional systems surfaces and interface states In depth examinations of



metal contacts including ohmic contacts the Schottky Barrier and metal molecule contacts A systematic guide to the operating principles of metal insulator semiconductor structures and the field effect A set of problems with solutions on line for each chapter of the book Perfect for electronics developers and researchers in both industry and academia who study and work with molecular and nanoscale electronics Electrical Processes in Organic Thin Film Devices also deserves a place in the libraries of undergraduate and postgraduate students in courses on molecular electronics organic electronics and plastic electronics     *Journal of the Physical Society of Japan* ,2018

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