

Raghu Murali *Editor*

# Graphene Nanoelectronics

From Materials to Circuits



Springer

# Graphene Nanoelectronics From Materials To Circuits

**Michel Houssa, Athanasios  
Dimoulas, Alessandro Molle**



## **Graphene Nanoelectronics From Materials To Circuits:**

*Graphene Nanoelectronics* Raghu Murali, 2012-03-13 This book describes how will graphene can be used as a replacement for Silicon technology and the potential benefits of using graphene in a wide variety of electronic applications Graphene has emerged as a potential candidate to replace traditional CMOS for a number of electronic applications this book presents the latest advances in graphene nanoelectronics and details its use in alternative channel materials on chip interconnects heat spreaders RF transistors NEMS and sensors The book also provides details on the various methods to grow graphene including epitaxial CVD and chemical methods With the growing interest in this material this book serves as a spring board for anyone trying to start working on this topic The book is also suitable to experts who wish to update themselves with the latest findings in the field

## **Handbook of Research on Nanoelectronic Sensor Modeling and Applications**

Ahmadi, Mohammad Taghi, Ismail, Razali, Anwar, Sohail, 2016-09-20 Nanoelectronics are a diverse set of materials and devices that are so small that quantum mechanics need to be applied to their function The possibilities these devices present outweigh the difficulties associated with their development as biosensors and similar devices have the potential to vastly improve our technological reach The Handbook of Research on Nanoelectronic Sensor Modeling and Applications begins with an introduction of the fundamental concepts of nanoelectronic sensors then proceeds to outline in great detail the concepts of nanoscale device modeling and nanoquantum fundamentals Recent advances in the field such as graphene technology are discussed at length in this comprehensive handbook ideal for electrical engineers advanced engineering students researchers and academics

*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

## **Micro and Nanoelectronics Devices, Circuits and Systems**

Koushik Guha, Samar Kanti Saha, Jacopo Iannacci, 2025-07-23 This book presents select proceedings of the International Conference on Micro and Nanoelectronics Devices Circuits and Systems MNDSCS 2024 The book includes cutting edge research papers in the emerging fields of micro and nanoelectronics devices circuits and systems from experts working in these fields over the last decade The book is a unique collection of chapters from different areas with a common theme It is beneficial to academic researchers and practitioners in the industry who work in this field

## **The Nanotechnology Revolution**

Dale A. Stirling, 2018-01-17 Nanotechnology is changing the world

in a very big way but at the atomic and sub atomic level Although the roots of nanotechnology can be traced back to more than a century ago the last three decades have witnessed an explosion of nano based technologies and products This reference work examines the history current status and future directions of nanotechnology through an exhaustive search of the technical and scientific literature The more than 4000 bibliographic citations it includes are carefully organized into core subject areas and a geographic and subject index allows readers to quickly locate documents of interest Although a sense of the global reach and interest in nanotechnology can be gleaned from the reference sections of countless journal articles conference papers and books this is the only reference work providing an in depth global perspective that is ready made for nanotechnology professionals and those interested in learning more about all things nanotechnology Despite the abundance of online resources there is still an urgent need for well researched well presented concise and thematically organized reference works Instead of relying on wiki pages citation aggregators and related websites the author searched the databases and databanks of scholarly literature search providers such as EBSCO ProQuest PUBMED STN International and Thomson Reuters In addition he used select serials related databases to account for pertinent documents from countries in which English is not the primary national language i e China Online Journals e periodica J STAGE and SciELO Brazil among others

*Nanoelectronic Materials* Loutfy H. Madkour, 2019-06-27 This book presents synthesis techniques for the preparation of low dimensional nanomaterials including 0D quantum dots 1D nanowires nanotubes and 2D thin films few layers as well as their potential applications in nanoelectronic systems It focuses on the size effects involved in the transition from bulk materials to nanomaterials the electronic properties of nanoscale devices and different classes of nanomaterials from microelectronics to nanoelectronics to molecular electronics Furthermore it demonstrates the structural stability physical chemical magnetic optical electrical thermal electronic and mechanical properties of the nanomaterials Subsequent chapters address their characterization fabrication techniques from lab scale to mass production and functionality In turn the book considers the environmental impact of nanotechnology and novel applications in the mechanical industries energy harvesting clean energy manufacturing materials electronics transistors health and medical therapy In closing it addresses the combination of biological systems with nanoelectronics and highlights examples of nanoelectronic cell interfaces and other advanced medical applications The book answers the following questions What is different at the nanoscale What is new about nanoscience What are nanomaterials NMs What are the fundamental issues in nanomaterials Where are nanomaterials found What nanomaterials exist in nature What is the importance of NMs in our lives Why so much interest in nanomaterials What is at nanoscale in nanomaterials What is graphene Are pure low dimensional systems interesting and worth pursuing Are nanotechnology products currently available What are sensors How can Artificial Intelligence AI and nanotechnology work together What are the recent advances in nanoelectronic materials What are the latest applications of NMs

Nanoelectronics for Next-Generation Integrated Circuits Rohit Dhiman, 2022-11-23 The incessant scaling of

complementary metal oxide semiconductor CMOS technology has resulted in significant performance improvements in very large scale integration VLSI design techniques and system architectures This trend is expected to continue in the future but this requires breakthroughs in the design of nano CMOS and post CMOS technologies Nanoelectronics refers to the possible future technologies beyond conventional CMOS scaling limits This volume addresses the current state of the art nanoelectronic technologies and presents potential options for next generation integrated circuits Nanoelectronics for Next generation Integrated Circuits is a useful reference guide for researchers engineers and advanced students working on the frontier of the design and modeling of nanoelectronic devices and their integration aspects with future CMOS circuits This comprehensive volume eloquently presents the design methodologies for spintronics memories quantum dot cellular automata and post CMOS FETs including applications in emerging integrated circuit technologies

*Micro and Nanoelectronics Devices, Circuits and Systems* Trupti Ranjan Lenka,Durgamadhab Misra,Arindam Biswas,2021-09-09 The book presents select proceedings of the International Conference on Micro and Nanoelectronics Devices Circuits and Systems MNDCS 2021 The volume includes cutting edge research papers in the emerging fields of micro and nanoelectronics devices circuits and systems from experts working in these fields over the last decade The book is a unique collection of chapters from different areas with a common theme and will be immensely useful to academic researchers and practitioners in the industry who work in this field

*Pure and Functionalized Carbon Based Nanomaterials* Pawel K. Zarzycki,2020-07-02 This book describes in a comprehensive manner latest studies conducted by various research groups worldwide focusing on carbon and related nanomaterials Fourteen chapters of this book deal with a number of key research topics and applications of pure and functionalized carbon nanomaterials and their hybrid nanocomposites Specifically the authors have presented interdisciplinary investigations including i carbon nanoparticles and layers synthesis ii analytical aspects of carbon nanomaterials and their characterisation under different conditions as well as iii various applications of carbon nanoparticles They have reported and summarised key applications of carbon particles or nanoobjects in pharmacy biomedicine agriculture and food industry water treatment physicochemical analysis optoelectronics electronic and magnetic materials for supercapacitors or radar adsorbing materials tribology chromatography electrophoresis bioanalysis nanobiocatalysis biofuels production as well as environmental remediation

**2D Materials for Nanoelectronics** Michel Houssa,Athanasios Dimoulas,Alessandro Molle,2016-05-05 Major developments in the semiconductor industry are on the horizon through the use of two dimensional 2D materials such as graphene and transition metal dichalcogenides for integrated circuits ICs 2D Materials for Nanoelectronics is the first comprehensive treatment of these materials and their applications in nanoelectronic devices Compris

**Introduction to Nanotechnology** Gilad James, PhD, Nanotechnology is a branch of science and technology that deals with studying and manipulating materials at the nanoscale It involves the use of nanoscale materials devices and systems to create new and innovative technologies for various fields such as medicine

electronics energy and materials science The foundation of nanotechnology lies in the ability to control and manipulate the properties of materials at the atomic and molecular level The unique properties exhibited by nanoparticles are attributed to their high surface area to volume ratio which leads to a significant increase in reactivity chemical activity and physical properties Hence the study and development of nanomaterials have the potential to revolutionize the way we live work and interact with the world around us Nanotechnology has a wide range of applications from the development of more effective and efficient drug delivery systems to the creation of more advanced computational devices and the possibilities are endless However there are also concerns about the potential risks associated with nanomaterials and extensive research is necessary to ensure their safe use and handling **Isotopes in Nanoparticles** Jordi Llop, Vanessa Gomez-Vallejo, 2016-03-30

Nanoparticles may be used in industrial processes incorporated into consumer products or applied as biomedical agents Isotopic radio labeling is one of the most powerful methods for nanoparticle tracing in experimental studies This book presents an introduction to some commonly used nanomaterials describes various methods with which they may

Nanoelectronics with a background in Nanotechnology Dr Dalvinder Singh Grewal, *Integrated Nanoelectronics* Vinod Kumar Khanna, 2016-09-16 Keeping nanoelectronics in focus this book looks at interrelated fields namely nanomagnetism nanophotonics nanomechanics and nanobiotechnology that go hand in hand or are likely to be utilized in future in various ways for backing up or strengthening nanoelectronics Complementary nanosciences refer to the alternative nanosciences that can be combined with nanoelectronics The book brings students and researchers from multiple disciplines and therefore with disparate levels of knowledge and more importantly lacunae in this knowledge together and to expose them to the essentials of integrative nanosciences The central idea is that the five identified disciplines overlap significantly and arguably cohere into one fundamental nanotechnology discipline The book caters to interdisciplinary readership in contrast to many of the existing nanotechnology related books that relate to a specific discipline The book lays special emphasis on nanoelectronics since this field has advanced most rapidly amongst all the nanotechnology disciplines and with significant commercial pervasion In view of the significant impact that nanotechnology is predicted to have on society the topics and their interrelationship in this book are of considerable interest and immense value to students professional engineers and reserachers **2D Materials for Nanoelectronics** Michel Houssa, Athanasios Dimoulas, Alessandro Molle, 2016-05-05

Major developments in the semiconductor industry are on the horizon through the use of two dimensional 2D materials such as graphene and transition metal dichalcogenides for integrated circuits ICs 2D Materials for Nanoelectronics is the first comprehensive treatment of these materials and their applications in nanoelectronic devices Compris Nanoelectronics Devices: Design, Materials, and Applications Part II Gopal Rawat, 2023-11-28 Nanoelectronics Devices Design Materials and Applications provides information about the progress of nanomaterial and nanoelectronic devices and their applications in diverse fields including semiconductor electronics biomedical engineering energy production and agriculture The book is

divided into two parts The editors have included a blend of basic and advanced information with references to current research The book is intended as an update for researchers and industry professionals in the field of electronics and nanotechnology It can also serve as a reference book for students taking advanced courses in electronics and technology The editors have included MCQs for evaluating the readers understanding of the topics covered in the book Topics Covered in Part 2 include applications of nanoelectronics for different devices and materials Photonic crystal waveguide geometry 8kW to 80kW power grids with simple energy storage systems Two dimensional material and based heterojunctions like MoS<sub>2</sub> graphene MoS<sub>2</sub> CNT and MoS<sub>2</sub> WS<sub>2</sub> 5G communication material Wearable devices like electronic skin intelligent wound bandages tattoo based electrochemical sensors PEDOT PSS based EEG New materials for medicine

**Springer Handbook of Semiconductor Devices** Massimo Rudan, Rossella Brunetti, Susanna Reggiani, 2022-11-10 This Springer Handbook comprehensively covers the topic of semiconductor devices embracing all aspects from theoretical background to fabrication modeling and applications Nearly 100 leading scientists from industry and academia were selected to write the handbook s chapters which were conceived for professionals and practitioners material scientists physicists and electrical engineers working at universities industrial R D and manufacturers Starting from the description of the relevant technological aspects and fabrication steps the handbook proceeds with a section fully devoted to the main conventional semiconductor devices like e g bipolar transistors and MOS capacitors and transistors used in the production of the standard integrated circuits and the corresponding physical models In the subsequent chapters the scaling issues of the semiconductor device technology are addressed followed by the description of novel concept based semiconductor devices The last section illustrates the numerical simulation methods ranging from the fabrication processes to the device performances Each chapter is self contained and refers to related topics treated in other chapters when necessary so that the reader interested in a specific subject can easily identify a personal reading path through the vast contents of the handbook

*Micro Electronic Circuit Design for High Performance Applications* Dr. S.Sathya, Dr. Priyanka Veeramosu, Dr. R. Boopathi, Dr. Bindu K V, Mr. Nishant S, 2025-01-28 Microelectronic Circuit Design for High Performance Applications is a comprehensive that explores advanced circuit design principles tailored for high speed low power and efficient electronic systems Topics such as semiconductor devices analog and digital circuit design signal integrity and power management the book provides in depth insights into optimizing performance in modern electronic applications It integrates theoretical foundations with practical design methodologies making it valuable for engineers researchers and students involved in cutting edge microelectronics With a focus on emerging technologies the addresses challenges in miniaturization integration and high frequency operation ensuring relevance in contemporary and future electronic design

**Proceedings of the International Conference on Nano-electronics, Circuits & Communication Systems** Vijay Nath, 2017-03-24 This volume comprises select papers from the International Conference on Nano electronics Circuits Communication Systems NCCS The conference focused on the

frontier issues and their applications in business academia industry and other allied areas This international conference aimed to bring together scientists researchers engineers from academia and industry The book covers technological developments and current trends in key areas such as VLSI design IC manufacturing and applications such as communications ICT and hybrid electronics The contents of this volume will prove useful to researchers professionals and students alike

*Nanoelectronics*, 2018-10-05 Nanoelectronics Devices Circuits and Systems explores current and emerging trends in the field of nanoelectronics from both a devices to circuits and circuits to systems perspective It covers a wide spectrum and detailed discussion on the field of nanoelectronic devices circuits and systems This book presents an in depth analysis and description of electron transport phenomenon at nanoscale dimensions Both qualitative and analytical approaches are taken to explore the devices circuit functionalities and their system applications at deep submicron and nanoscale levels Recent devices including FinFET Tunnel FET and emerging materials including graphene and its applications are discussed In addition a chapter on advanced VLSI interconnects gives clear insight to the importance of these nano transmission lines in determining the overall IC performance The importance of integration of optics with electronics is elucidated in the optoelectronics and photonic integrated circuit sections of this book This book provides valuable resource materials for scientists and electrical engineers who want to learn more about nanoscale electronic materials and how they are used Shows how electronic transport works at the nanoscale level Demonstrates how nanotechnology can help engineers create more effective circuits and systems Assesses the most commonly used nanoelectronic devices explaining which is best for different situations

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## **Table of Contents Graphene Nanoelectronics From Materials To Circuits**

1. Understanding the eBook Graphene Nanoelectronics From Materials To Circuits
  - The Rise of Digital Reading Graphene Nanoelectronics From Materials To Circuits
  - Advantages of eBooks Over Traditional Books
2. Identifying Graphene Nanoelectronics From Materials To Circuits
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Graphene Nanoelectronics From Materials To Circuits
  - User-Friendly Interface
4. Exploring eBook Recommendations from Graphene Nanoelectronics From Materials To Circuits
  - Personalized Recommendations

- Graphene Nanoelectronics From Materials To Circuits User Reviews and Ratings
- Graphene Nanoelectronics From Materials To Circuits and Bestseller Lists
- 5. Accessing Graphene Nanoelectronics From Materials To Circuits Free and Paid eBooks
  - Graphene Nanoelectronics From Materials To Circuits Public Domain eBooks
  - Graphene Nanoelectronics From Materials To Circuits eBook Subscription Services
  - Graphene Nanoelectronics From Materials To Circuits Budget-Friendly Options
- 6. Navigating Graphene Nanoelectronics From Materials To Circuits eBook Formats
  - ePub, PDF, MOBI, and More
  - Graphene Nanoelectronics From Materials To Circuits Compatibility with Devices
  - Graphene Nanoelectronics From Materials To Circuits Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Graphene Nanoelectronics From Materials To Circuits
  - Highlighting and Note-Taking Graphene Nanoelectronics From Materials To Circuits
  - Interactive Elements Graphene Nanoelectronics From Materials To Circuits
- 8. Staying Engaged with Graphene Nanoelectronics From Materials To Circuits
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Graphene Nanoelectronics From Materials To Circuits
- 9. Balancing eBooks and Physical Books Graphene Nanoelectronics From Materials To Circuits
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Graphene Nanoelectronics From Materials To Circuits
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Graphene Nanoelectronics From Materials To Circuits
  - Setting Reading Goals Graphene Nanoelectronics From Materials To Circuits
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Graphene Nanoelectronics From Materials To Circuits
  - Fact-Checking eBook Content of Graphene Nanoelectronics From Materials To Circuits

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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