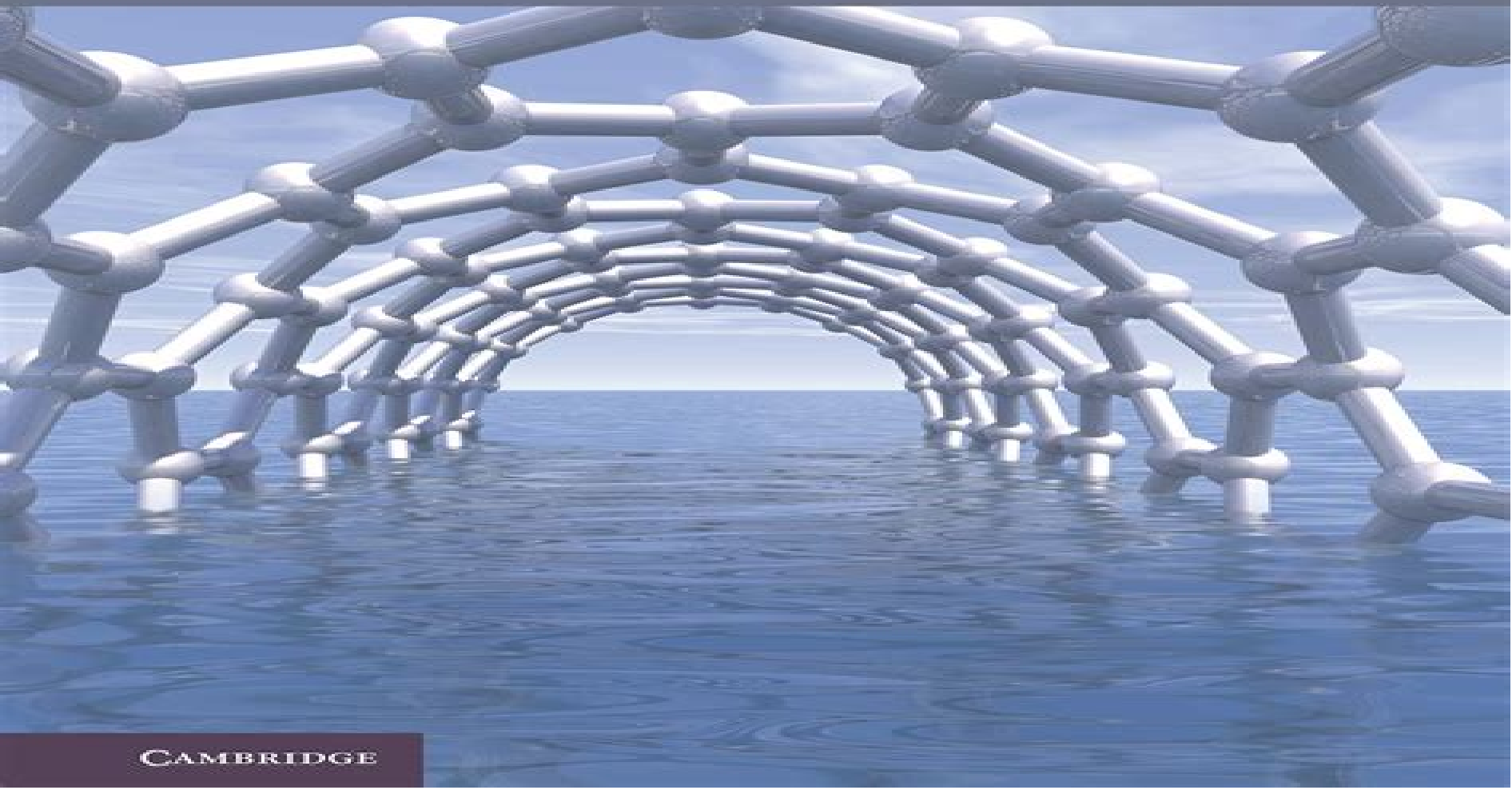


Carbon Nanotube and Graphene Device Physics

H.-S. Philip Wong and Deji Akinwande



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Carbon Nanotube Graphene Device Physics Hon-Sum Philip Wong, Deji Akinwande, 2011 Explaining the properties and performance of practical nanotube devices and related applications this is the first introductory textbook on the subject All the fundamental concepts are introduced so that readers without an advanced scientific background can follow all the major ideas and results Additional topics covered include nanotube transistors and interconnects and the basic physics of graphene Problem sets at the end of every chapter allow readers to test their knowledge of the material covered and gain a greater understanding of the analytical skill sets developed in the text This is an ideal textbook for senior undergraduate and graduate students taking courses in semiconductor device physics and nanoelectronics It is also a perfect self study guide for professional device engineers and researchers

Physics of Carbon Nanotube Devices Francois Leonard, 2008-11-18 Possibly the most impactful material in the nanotechnology arena carbon nanotubes have spurred a tremendous amount of scientific research and development Their superior mechanical and chemical robustness makes them easily manipulable and allows for the assembly of various types of devices including electronic electromechanical opto electronic and sensing devices In the field of nanotube devices however concepts that describe the properties of conventional devices do not apply Carbon nanotube devices behave much differently from those using traditional materials and offer entirely new functionality This book designed for researchers engineers and graduate students alike bridges the experimental and theoretical aspects of carbon nanotube devices It emphasizes and explains the underlying physics that govern their working principles including applications in electronics nanoelectromechanical systems field emission optoelectronics and sensing Other topics include electrical contacts p n junctions transistors ballistic transport field emission oscillators rotational actuators electron phonon scattering photoconductivity and light emission Many of the aspects discussed here differ significantly from those learned in books or traditional materials and are essential for the future development of carbon nanotube technology Bridges experimental and theoretical aspects of carbon nanotube devices focusing on the underlying physics that govern their working principles Explains applications in electronics nanoelectromechanical systems field emission optoelectronics and sensing Other topics include electrical contacts p n junctions transistors ballistic transport field emission oscillators rotational actuators electron phonon scattering photoconductivity and light emission Covers aspects that significantly differ from those learned in traditional materials yet are essential for future advancement of carbon nanotube technology Bridges experimental and theoretical aspects of carbon nanotube devices focusing on the underlying physics that govern their working principles

Explains applications in electronics nanoelectromechanical systems field emission optoelectronics and sensing Other topics include electrical contacts p n junctions transistors ballistic transport field emission oscillators rotational actuators electron phonon scattering photoconductivity and light emission Covers aspects that significantly differ from those learned in traditional materials yet are essential for future advancement of carbon nanotube technology

Frontiers of Graphene and Carbon Nanotubes Kazuhiko Matsumoto, 2015-03-05 This book focuses on carbon nanotubes and graphene as representatives of nano carbon materials and describes the growth of new technology and applications of new devices As new devices and as new materials nano carbon materials are expected to be world pioneers that could not have been realized with conventional semiconductor materials and as those that extend the limits of conventional semiconductor performance This book introduces the latest achievements of nano carbon devices processes and technology growth It is anticipated that these studies will also be pioneers in the development of future research of nano carbon devices and materials This book consists of 18 chapters Chapters 1 to 8 describe new device applications and new growth methods of graphene and Chapters 9 to 18 those of carbon nanotubes It is expected that by increasing the advantages and overcoming the weak points of nanocarbon materials a new world that cannot be achieved with conventional materials will be greatly expanded We strongly hope this book contributes to its development

Nanoelectronics Vijay Kumar Arora, 2018-10-08 Brings the Band Structure of Carbon Based Devices into the Limelight A shift to carbon is positioning biology as a process of synthesis in mainstream engineering Silicon is quickly being replaced with carbon based electronics devices are being reduced down to nanometer scale and further potential applications are being considered While traditionally engineers are trained by way of physics chemistry and mathematics Nanoelectronics Quantum Engineering of Low Dimensional Nanoensembles establishes biology as an essential basic science for engineers to explore Unifies Science and Engineering from Quantum Physics to Nanoengineering Drawing heavily on published papers by the author this research driven text offers a complete review of nanoelectronic transport starting from quantum waves to ohmic and ballistic conduction and saturation limited extreme nonequilibrium conditions In addition it highlights a new paradigm using non equilibrium Arora's Distribution Function NEADF and establishes this function as the starting point from band theory to equilibrium to extreme nonequilibrium carrier statistics The author focuses on nano electronic device design and development including carbon based devices and provides you with a vantage point for the global outlook on the future of nanoelectronics devices and ULSI Encompassing ten chapters this illuminating text Converts the electric field response of drift velocity into current voltage relationships that are driven by the presence of critical voltage and saturation current arising from the unidirectional drift of carriers Applies the effect of these scaled down dimensions to nano MOSFET metal oxide semiconductor field effect transistor Considers specialized applications that can be tried through a number of suggested projects that are all feasible with MATLAB codes

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identifies problems and other factors to consider when it comes to nanolayer design and application and ponders future trends Print Versions of this book also include access to the ebook version **Micro- and Nanoelectronics** Tomasz

Brozek,2017-12-19 Micro and Nanoelectronics Emerging Device Challenges and Solutions presents a comprehensive overview of the current state of the art of micro and nanoelectronics covering the field from fundamental science and material properties to novel ways of making nanodevices Containing contributions from experts in both industry and academia this cutting edge text Discusses emerging silicon devices for CMOS technologies fully depleted device architectures characteristics and scaling Explains the specifics of silicon compound devices SiGe SiC and their unique properties Explores various options for post CMOS nanoelectronics such as spintronic devices and nanoionic switches Describes the latest developments in carbon nanotubes iii v devices structures and more Micro and Nanoelectronics Emerging Device Challenges and Solutions provides an excellent representation of a complex engineering field examining emerging materials and device architecture alternatives with the potential to shape the future of nanotechnology **VLSI Design** Esteban Tlelo-Cuautle,Sheldon X.-D. Tan,2012-01-20 This book provides some recent advances in design nanometer VLSI chips The selected topics try to present some open problems and challenges with important topics ranging from design tools new post silicon devices GPU based parallel computing emerging 3D integration and antenna design The book consists of two parts with chapters such as VLSI design for multi sensor smart systems on a chip Three dimensional integrated circuits design for thousand core processors Parallel symbolic analysis of large analog circuits on GPU platforms Algorithms for CAD tools VLSI design A multilevel memetic algorithm for large SAT encoded problems etc **Advanced**

Nanomaterials for Solution-Processed Flexible Optoelectronic Devices Manjeet Singh,Ashish Kumar Singh,2025-03-17 This book covers the recent advancements in the fabrication of flexible optoelectronic devices using advanced nanomaterials It provides information on how to process non layered advanced nanomaterials such as carbon nanotubes fullerenes nanowires colloidal quantum dots inorganic halide perovskite perovskite nanomaterials stabilized in porous materials doped ZnO lead chalcogenide nano crystals for the easy fabrication of the optoelectronic devices at an industrial scale Advanced Nanomaterials for Solution Processed Flexible Optoelectronic Devices provides up to date knowledge centered on the various non layered nanomaterials and their different types of application in optoelectronic device fabrication The first few chapters focus on the processing and applications of carbon nanotubes and fullerenes into devices for photovoltaics Throughout the book the authors demonstrate not only device fabrication but processing of the advanced nanomaterials to make them suitable for wide applications as different components in optoelectronics The book also presents discussions on the current challenges and future perspective for the proper processing and utilization of advanced nanomaterials for the fabrication of devices This book is intended for graduate students researchers and engineers working in the area of advanced nanomaterials energy conversion energy storage sensors and different types of optoelectronic devices **Graphene** E. L.

Wolf,2014 A complete description of the science and applications of graphene a revolutionary two dimensional one atom thick material of exceedingly high electrical conductivity and tensile strength **Recent Trends in Materials and Devices**

Vinod Kumar Jain,Sunita Rattan,Abhishek Verma,2016-10-20 This book presents the proceedings of the International Conference on Recent Trends in Materials and Devices which was conceived as a major contribution to large scale efforts to foster Indian research and development in the field in close collaboration with the community of non resident Indian researchers from all over the world The research articles collected in this volume selected from among the submissions for their intrinsic quality and originality as well as for their potential value for further collaborations document and report on a wide range of recent and significant results for various applications and scientific developments in the areas of Materials and Devices The technical sessions covered include photovoltaics and energy storage semiconductor materials and devices sensors smart and polymeric materials optoelectronics nanotechnology and nanomaterials MEMS and NEMS as well as emerging technologies **Carbon Nanotubes** Jose Mauricio Marulanda,2011-08-01 Carbon nanotubes CNTs discovered in 1991 have been a subject of intensive research for a wide range of applications In the past decades although carbon nanotubes have undergone massive research considering the success of silicon it has nonetheless been difficult to appreciate the potential influence of carbon nanotubes in current technology The main objective of this book is therefore to give a wide variety of possible applications of carbon nanotubes in many industries related to electron device technology This should allow the user to better appreciate the potential of these innovating nanometer sized materials Readers of this book should have a good background on electron devices and semiconductor device physics as this book presents excellent results on possible device applications of carbon nanotubes This book begins with an analysis on fabrication techniques followed by a study on current models and it presents a significant amount of work on different devices and applications available to current technology **Journal of Nano Research Vol. 55** Efstathios I. Meletis,2018-11-07 The 55th volume of the Journal of Nano Research presents readers with the collection of peer reviewed papers by the results of the research from the field of synthesis and the use of various nanomaterials and nanostructures We hope that this volume of the journal will be useful and interesting for a wide range of engineers scientists and students whose activity is related with the creation and using of nanomaterials and nanotechnologies in different branches of human activity Carbon Nanotube Electronics Ali Javey,Jing Kong,2009-04-21 This book provides a complete overview of the field of carbon nanotube electronics It covers materials and physical properties synthesis and fabrication processes devices and circuits modeling and finally novel applications of nanotube based electronics The book introduces fundamental device physics and circuit concepts of 1 D electronics At the same time it provides specific examples of the state of the art nanotube devices **Carbon Nanotubes and Graphene** Kazuyoshi Tanaka,S. Iijima,2014-07-10 Carbon Nanotubes and Graphene is a timely second edition of the original Science and Technology of Carbon Nanotubes Updated to include expanded coverage of the preparation purification structural

characterization and common application areas of single and multi walled CNT structures this work compares contrasts and where appropriate unitizes CNT to graphene This much expanded second edition reference supports knowledge discovery production of impactful carbon research encourages transition between research fields and aids the formation of emergent applications New chapters encompass recent developments in the theoretical treatments of electronic and vibrational structures and magnetic optical and electrical solid state properties providing a vital base to research Current and potential applications of both materials including the prospect for large scale synthesis of graphene biological structures and flexible electronics are also critically discussed Updated discussion of properties structure and morphology of biological and flexible electronic applications aids fundamental knowledge discovery Innovative parallel focus on nanotubes and graphene enables you to learn from the successes and failures of respectively mature and emergent partner research disciplines High quality figures and tables on physical and mathematical applications expertly summarize key information essential if you need quick critically relevant data

Micro-Nano Technology XVI Fei Tang, 2015-05-18 Selected peer reviewed papers from the 16th Annual Conference and 5th International Conference of the Chinese Society of Micro Nano Technology CSMNT 2014 August 31 September 3 2014 Chengdu China

Low-dimensional Carbon Nanotube and Graphene Devices Philip Scard, 2010

Electronic devices in which the electrons are confined to fewer than three spatial dimensions are an important tool for physics research and future developments in computing technology Recently discovered carbon nanotubes 1991 and graphene 2004 are intrinsically low dimensional materials with remarkable electronic properties Combined with semiconductor technologies they might be used to fabricate smaller devices with more complex functionality This thesis addresses two routes towards this goal The detection of charge transport through quantum dots using a GaAs point contact is a potential tool for quantum computation This project aimed to fabricate and measure hybrid devices with carbon nanotube quantum dots on top of GaAs point contacts Dispersion and AFM manipulations of nanotubes on GaAs were studied revealing comparatively weak binding Transport measurements indicated that GaAs induces disorder in nanotubes creating multiple tunnel barriers Preliminary attempts were made at CVD growth and ink jet printing of nanotubes directly onto GaAs Although only one atom thick graphene is macroscopic in area and must be patterned to confine conduction room temperature transistor behaviour requires graphene ribbons only a few nanometres wide This work fabricated such structures using a charged AFM tip achieving reliable cutting even on single layer graphene and feature sizes as small as 5 nm The cutting mechanism was found to be chemical oxidation of carbon by a polarised water layer with an activation energy determined by the energy of dissociation of water at the graphene surface The critical variables were the voltage difference between the tip and graphene and the atmospheric humidity An unstable solid oxide intermediate was also observed Thermal annealing revealed the presence of a layer of water beneath flakes Finally EFM measurements were made of graphene at 20 mK enabling estimates of the local carrier density and revealing spatial variations in the electronic structure on a scale

consistent with electron and hole puddles *Advanced Nanoelectronics* Muhammad Mustafa Hussain, 2018-11-09 Brings novel insights to a vibrant research area with high application potential covering materials physics architecture and integration aspects of future generation CMOS electronics technology Over the last four decades we have seen tremendous growth in semiconductor electronics This growth has been fueled by the matured complementary metal oxide semiconductor CMOS technology This comprehensive book captures the novel device options in CMOS technology that can be realized using non silicon semiconductors It discusses germanium III V materials carbon nanotubes and graphene as semiconducting materials for three dimensional field effect transistors It also covers non conventional materials such as nanowires and nanotubes Additionally nanoelectromechanical switches based mechanical relays and wide bandgap semiconductor based terahertz electronics are reviewed as essential add on electronics for enhanced communication and computational capabilities *Advanced Nanoelectronics Post Silicon Materials and Devices* begins with a discussion of the future of CMOS It continues with comprehensive chapter coverage of nanowire field effect transistors two dimensional materials for electronic applications the challenges and breakthroughs of the integration of germanium into modern CMOS carbon nanotube logic technology tunnel field effect transistors energy efficient computing with negative capacitance spin based devices for logic memory and non Boolean architectures and terahertz properties and applications of GaN Puts forward novel approaches for future state of the art nanoelectronic devices Discusses emerging materials and architectures such as alternate channel material like germanium gallium nitride 1D nanowires tubes 2D graphene and other dichalcogenide materials and ferroelectrics Examines new physics such as spintronics negative capacitance quantum computing and 3D IC technology Brings together the latest developments in the field for easy reference Enables academic and R D researchers in semiconductors to think outside the box and explore beyond silica An important resource for future generation CMOS electronics technology *Advanced Nanoelectronics Post Silicon Materials and Devices* will appeal to materials scientists semiconductor physicists semiconductor industry and electrical engineers **Graphene and Carbon Nanotubes** Ermin Malic, Andreas Knorr, 2013-04-12 A first on ultrafast phenomena in carbon nanostructures like graphene the most promising candidate for revolutionizing information technology and communication The book introduces the reader into the ultrafast nanoworld of graphene and carbon nanotubes including their microscopic tracks and unique optical finger prints The author reviews the recent progress in this field by combining theoretical and experimental achievements He offers a clear theoretical foundation by presenting transparently derived equations Recent experimental breakthroughs are reviewed By combining both theory and experiment as well as main results and detailed theoretical derivations the book turns into an inevitable source for a wider audience from graduate students to researchers in physics materials science and electrical engineering who work on optoelectronic devices renewable energies or in the semiconductor industry *Nanotubes And Nanowires* John Peter Burke, 2007-03-27 The field of nanotubes and nanowires is evolving at a rapid pace with many potential

applications in electronics optics and sensors to name a few In this book various prominent researchers summarize our current understanding of these new materials systems as well as some of these potential applications A snapshot of the state of the art in the field of nanowires and nanotubes the contributions give an instructive mix of experimental theoretical and visionary material to give the reader an indication of where the field is now and where it is going With several points of view represented including academic theoreticians academic experimental device engineers and industry researchers from well known semiconductor companies Nanotubes and Nanowires is an essential source of reference for physicists chemists materials scientists and graduate students interested in keeping abreast of the latest developments in nanotechnology

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Table of Contents Carbon Nanotube And Graphene Device Physics

1. Understanding the eBook Carbon Nanotube And Graphene Device Physics
 - The Rise of Digital Reading Carbon Nanotube And Graphene Device Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Carbon Nanotube And Graphene Device Physics
 - 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 Carbon Nanotube And Graphene Device Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Carbon Nanotube And Graphene Device Physics
 - Personalized Recommendations
 - Carbon Nanotube And Graphene Device Physics User Reviews and Ratings
 - Carbon Nanotube And Graphene Device Physics and Bestseller Lists
5. Accessing Carbon Nanotube And Graphene Device Physics Free and Paid eBooks
 - Carbon Nanotube And Graphene Device Physics Public Domain eBooks
 - Carbon Nanotube And Graphene Device Physics eBook Subscription Services
 - Carbon Nanotube And Graphene Device Physics Budget-Friendly Options

6. Navigating Carbon Nanotube And Graphene Device Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - Carbon Nanotube And Graphene Device Physics Compatibility with Devices
 - Carbon Nanotube And Graphene Device Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Carbon Nanotube And Graphene Device Physics
 - Highlighting and Note-Taking Carbon Nanotube And Graphene Device Physics
 - Interactive Elements Carbon Nanotube And Graphene Device Physics
8. Staying Engaged with Carbon Nanotube And Graphene Device Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Carbon Nanotube And Graphene Device Physics
9. Balancing eBooks and Physical Books Carbon Nanotube And Graphene Device Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Carbon Nanotube And Graphene Device Physics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Carbon Nanotube And Graphene Device Physics
 - Setting Reading Goals Carbon Nanotube And Graphene Device Physics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Carbon Nanotube And Graphene Device Physics
 - Fact-Checking eBook Content of Carbon Nanotube And Graphene Device Physics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
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