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# Modelling of Plasmonic and Graphene Nanodevices



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# Modelling Of Plasmonic And Graphene Nanodevices Springer Theses

**Klaus D. Sattler**



## **Modelling Of Plasmonic And Graphene Nanodevices Springer Theses:**

**Modelling of Plasmonic and Graphene Nanodevices** Javier Munárriz Arrieta, 2014-05-28 The thesis covers a broad range of electronic optical and opto electronic devices and various predicted physical effects In particular it examines the quantum interference transistor effect in graphene nanorings tunable spin filtering and spin dependent negative differential resistance in composite heterostructures based on graphene and ferromagnetic materials optical and novel electro optical bistability and hysteresis in compound systems and the real time control of radiation patterns of optical nanoantennas The direction of the main radiation lobe of a regular plasmonic array can be changed abruptly by small variations in external control parameters This optical effect apart from its relevance for applications is a revealing example of the Umklapp process and thus is a visual manifestation of one of the most fundamental laws of solid state physics the conservation of the quasi momentum to within a reciprocal lattice vector The thesis analyzes not only results for particular device designs but also a variety of advanced numerical methods which are extended by the author and described in detail These methods can be used as a sound starting point for further research

**Plasmonic Instabilities in Bidimensional Materials** Pedro Afonso Cosme e Silva, 2025-03-29 This book provides an in depth analysis of the hydrodynamics of two dimensional 2D electronic systems with a particular focus on graphene and other Dirac materials It explores the theoretical framework and numerical simulations to uncover the potential of plasmonic instabilities in advancing nanotechnology Moreover the book also addresses the collective behaviour of quasiparticles in 2D materials and offers insights into the complex interplay between hydrodynamic behaviours and plasmonic phenomena The main topics covered in this book include the hydrodynamic description of charge carriers nonlinear waves and topological effects in 2D electronic systems It provides a comprehensive treatment of the Boltzmann equation to derive fluid like transport equations which are then used to study the collective responses and behaviours of these systems The book also relies on the concept of electrostatic excitations the plasmons as an additional fluid and explores their effects and interplay with the charge carriers One of the significant contributions of this book is the investigation of plasmonic instabilities and their potential applications in creating new active nanodevices such as THz radiation sources The theoretical findings are supported by extensive numerical simulations providing a deeper understanding of the principles governing electronic flow in 2D materials Further this work also examines the nonlinear dynamics of electrohydrodynamics revealing phenomena such as solitary waves and the criteria for their occurrence Lastly the novel aspects of topological effects on the charge flow are also investigated The importance of this work lies in its dual contribution to fundamental research and practical applications On the theoretical side it advances our understanding of the hydrodynamic regime of 2D materials and the transient and dynamic responses of these systems On the practical side it proposes novel device implementations such as plasmonics oscillators and waveguides On that topic the book addresses the challenges of these devices offering solutions to enhance controllability and to boost performance as well This book is

essential for graduate students researchers and professionals in the fields of quantum plasmas 2D materials and plasmonics It is particularly valuable for plasma scientists interested in exploring 2D materials and condensed matter physicists who wish to study the hydrodynamic regime and the dynamic responses of these systems By providing a detailed and comprehensive understanding of these advanced topics this book paves the way for future research and technological innovations in the rapidly evolving fields of electrohydrodynamics and plasmonics **From Classical to Quantum**

**Plasmonics in Three and Two Dimensions** Thomas Christensen, 2017-01-11 This thesis provides a comprehensive introduction to two active research directions within the field of plasmonics i nonclassical or quantum aspects of the plasmonic response and ii two dimensional plasmonics a recent innovation in the field stimulated by the advent of two dimensional materials It discusses the fundamentals of this field in detail and explores several current research directions Nonclassical plasmonics has been spurred on in recent years by the tremendous technological progress in nanofabrication and optical characterization today it is possible to investigate the plasmonic features of nanostructures with characteristic features in the few nanometer range The book describes and analyzes the breakdown of the classical theory under these conditions and explores several alternatives and extensions The unique electronic and dimensional features of novel two dimensional materials such as graphene lie at the core of plasmonics most rapidly developing subfield two dimensional plasmonics This thesis provides a clear and comprehensive exposition of the central features for interested researchers looking for an entry point to this riveting area *Modelling of Plasmonic and Graphene Nanodevices* Javier Munárriz Arrieta, 2014-06-16 The thesis covers a broad range of electronic optical and opto electronic devices and various predicted physical effects In particular it examines the quantum interference transistor effect in graphene nanorings tunable spin filtering and spin dependent negative differential resistance in composite heterostructures based on graphene and ferromagnetic materials optical and novel electro optical bistability and hysteresis in compound systems and the real time control of radiation patterns of optical nanoantennas The direction of the main radiation lobe of a regular plasmonic array can be changed abruptly by small variations in external control parameters This optical effect apart from its relevance for applications is a revealing example of the Umklapp process and thus is a visual manifestation of one of the most fundamental laws of solid state physics the conservation of the quasi momentum to within a reciprocal lattice vector The thesis analyzes not only results for particular device designs but also a variety of advanced numerical methods which are extended by the author and described in detail These methods can be used as a sound starting point for further research Modern Luminescence from Fundamental Concepts to Materials and Applications, Volume 2 Surender Kumar Sharma, Carlos Jacinto da Silva, Daniel Jaque Garcia, Navadeep Shrivastava, 2024-11-14 Modern Luminescence from Fundamental Concepts to Materials and Applications Volume Two Luminescence in Materials is part of a multivolume work that reviews the fundamental principles properties and applications of luminescent materials Topics addressed include 1 The key concepts of

luminescence with a focus on important characterization techniques to understand a wide category of luminescent materials

2 The most relevant luminescent materials categories including both current and emerging materials and 3 The applications of luminescent materials in biomedicine solid state devices and the development of hybrid materials This updated volume reviews the most relevant luminescent materials including transition metals rare earth materials actinide based materials and organic materials In addition the book reviews luminescence mechanisms in relevant emerging materials and the optical techniques used to characterize these materials Provides an overview of luminescence mechanisms in transition and rare earth elements actinides and organics Reviews the latest advances in optimizing luminescent properties in materials Includes experimental spectroscopic techniques to analyze luminescent materials

Advances in Nanocomposite Materials for Environmental and Energy Harvesting Applications Ahmed Esmail Shalan, Abdel Salam Hamdy Makhlouf, Senentxu Lanceros-Méndez, 2022-03-03 This book discusses the fundamental synthesis properties physico chemical characterizations and applications of recently explored nanocomposite materials It covers the applications of these different nanocomposite materials in the environmental and energy harvesting fields The chapters explore the different techniques used for preparation and characterization of several types of nanocomposite materials for applications related to environmental and energy pathways This book presents a panorama of current research in the field of nanocomposite structures for different applications It also assesses the advantages and disadvantages of using different types of nanocomposite in the design of different material products The comprehensive chapters explain the interactions between nanocomposite materials and mechanisms related to applications in environmental pollution and energy shortage

Nanotechnology in Regenerative Medicine and Drug Delivery Therapy Haiyan Xu, Ning Gu, 2020-07-21 The book focuses on the application of nanotechnologies in scaffold guided tissue regeneration and in drug delivery systems for use in immunotherapy and overcoming drug resistance in cancer treatment It covers a variety of topics including nanomaterials for immunomodulation and immunotherapy molecular studies on self assembly for peptides and DNA and related applications in tumor diagnosis and therapeutics and against human pathogenic bacteria magnetic and conductive scaffolds for guiding tissue regeneration multiple functions of magnetic nanoparticles in drug delivery and regenerative medicine and repurposing of traditional medicine in nano formulations In addition it discusses common effects of nanomaterials including reactive oxygen species and protein corona Providing valuable insights and the presenting the latest research advances the book allows readers to gain a systematic understanding of the topic

Graphene Nanoelectronics Raghu Murali, 2012-03-09 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 the potential benefits of using graphene in a wide variety of electronic applications The book also provides details on various methods to grow graphene including epitaxial CVD and chemical methods This book serves as a spring board for anyone trying to start working on graphene The book is also suitable to

experts who wish to update themselves with the latest findings in the field

**Nanomaterial-Based Drug Delivery Systems** Chandrakantsing V. Pardeshi, 2023-06-21 Effective drug delivery systems are essential in maximizing the therapeutic effects of the drugs in question This book thoroughly analyses recent technological advances in new nanomaterial based drug delivery systems for the diagnosis and treatment of various diseases These systems also have diverse applications in pharmaceutical biomedical biomaterial and biotechnological fields This book explains the different types of nanocarriers currently in development and covers both therapeutic and theranostic applications of drug loaded nanocarriers and nanomedicine Clinical research professionals industrial pharmaceutical scientists and veteran drug delivery developers benefit from the unique structure of this book making it essential for the drug delivery researcher Students research scholars and industrial professionals alike benefit from the current technological advancements regulatory aspects and the history of discovery and development in the field of nanomedicine presented in this book

**Advanced Composites** S.M. Sapuan, R.A. Ilyas, M.M. Harussani, 2024-12-04 This book examines advanced composites such as biocomposites hybrid composites hybrid biocomposites and nanocomposites to address the COVID 19 pandemic In the past two years composite materials have grown in strength stature and significance to become a key material of enhanced scientific interest and resultant research into understanding their behavior for selection and safe use in a wide spectrum of technology related applications The authors describe distinctive features of these materials such as low density high strength high elastic modulus high hardness high temperature endurance and outstanding chemical and environmental stability The book further discusses recent global scenarios during the pandemic composite and biocomposite materials characterization design solutions the characteristics and performance of materials and structures and their roles in reducing virus spread It also looks at the prospects obstacles and future directions of composites

**Nanopharmaceuticals: Principles and Applications Vol. 3** Vinod Kumar Yata, Shivendu Ranjan, Nandita Dasgupta, Eric Lichtfouse, 2020-08-19 This book is the third volume on this subject and focuses on the recent advances of nanopharmaceuticals in cancer dental dermal and drug delivery applications and presents their safety toxicity and therapeutic efficacy The book also includes the transport phenomenon of nanomaterials and important pathways for drug delivery applications It goes on to explain the toxicity of nanoparticles to different physiological systems and methods used to assess this for different organ systems using examples of in vivo systems

*How to Build a Lab-on/in-Fiber* Libo Yuan, 2025-03-27 This book explores the technical foundations of constructing diverse laboratories on optical fiber In recent years microstructured based optical fiber devices and sensors have emerged as a rapidly advancing area within the field of optical fiber sensing technology The concept of creating a laboratory on optical fiber has been inspired by advances in micro structured fiber optics Given the natural existence of optical waveguide channels within fibers it is feasible to integrate a wide range of materials such as inorganic organic biological and nonlinear optical substances into or onto the fiber s end face or side This integration facilitates the interaction between light and

matter leading to measurable optical outcomes through the fiber's optical channel. The rapid evolution of this concept is driven by the ease with which strong interactions can be achieved between light and matter at the micro-nano scale within the fiber, making it an ideal platform for experiments in lightwave microscale physics, photochemistry, and the interaction between light and both biological and microbial materials. The fiber optics laboratory thus offers a compelling stage for interdisciplinary research endeavors. This book serves as a comprehensive and systematic introduction to the core techniques involved in establishing various laboratories on fiber, complemented by practical examples that illustrate the purpose, methodology, and technical approaches to developing fiber-based laboratories. It stands as an invaluable reference for students and researchers intrigued by the cutting-edge advancements in fiber-optic technology.

### **21st Century**

**Nanoscience** Klaus D. Sattler, 2022-01-18 This 21st Century Nanoscience Handbook will be the most comprehensive up-to-date large reference work for the field of nanoscience. Handbook of Nanophysics by the same editor published in the fall of 2010 was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics. This follow-up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010. It goes well beyond the physics as warranted by recent developments in the field.

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### **21st Century Nanoscience - A Handbook** Klaus D.

Sattler, 2020-04-02 This up-to-date reference is the most comprehensive summary of the field of nanoscience and its applications. It begins with fundamental properties at the nanoscale and then goes well beyond into the practical aspects of the design, synthesis, and use of nanomaterials in various industries. It emphasizes the vast strides made in the field over the past decade; the chapters focus on new promising directions as well as emerging theoretical and experimental methods. The contents incorporate experimental data and graphs where appropriate, as well as supporting tables and figures with a tutorial approach.

**Applications of Nanomaterials in Human Health** Firdos Alam Khan, 2020-06-20 This book reviews the various applications of nanotechnology in human health. The introductory chapters focus on the classifications, types, synthesis, and characterization of various types of nanomaterials, while subsequent chapters highlight current applications of nanomaterials in the diagnosis and treatment of microbial and viral infections and also in stem cell biology and regenerative medicine.

Further the book explores the potential role of nanomaterials in connection with neuronal differentiation neuronal protection and neurological diseases It demonstrates the use of nanotechnology to diagnose and treat genetic disorders as well as endocrine and metabolic syndrome diseases It also discusses the ethics and the negative impacts of nanomaterials on human health Lastly it examines the intellectual property aspects and government regulations associated with the research design and commercialization of nanotechnology based products Given its scope it offers a valuable resource for all researchers and professionals working with nanotechnology based applications in human health Nanotechnology for Bioapplications

Bong-Hyun Jun,2021-03-29 This book documents the tremendous progress in the use of nanotechnology for a range of bioapplications with the aim of providing students researchers technicians and other professionals with an up to date overview of the field After a general introduction to the surface modifications of nanoparticles required for different biological applications and to the properties of the modified nanoparticles a series of chapters describe the state of the art in respect of different types of nanoparticle including silica nanoparticles fluorescent nanomaterials metal nanoparticles magnetic nanoparticles carbon based nanostructures and other novel nanomaterials Detailed information is supplied on methods of preparation chemical and physical properties and current and potential applications The closing chapters discuss lithography methods for the top down approach to nanoparticle synthesis and the use of spectroscopic studies as a tool for the characterization of each nanoparticle Future prospects and challenges for the development of further nanomaterials with bioapplications are also covered *Plant Genetics and Molecular Biology* Rajeev K. Varshney,Manish K. Pandey,Annapurna

Chitikineni,2018-09-04 This book reviews the latest advances in multiple fields of plant biotechnology and the opportunities that plant genetics genomics and molecular biology have offered for agriculture improvement Advanced technologies can dramatically enhance our capacity in understanding the molecular basis of traits and utilizing the available resources for accelerated development of high yielding nutritious input use efficient and climate smart crop varieties In this book readers will discover the significant advances in plant genetics structural and functional genomics trait and gene discovery transcriptomics proteomics metabolomics epigenomics nanotechnology and analytical decision support tools in breeding This book appeals to researchers academics and other stakeholders of global agriculture **Encyclopedia of Interfacial**

**Chemistry** ,2018-03-29 Encyclopedia of Interfacial Chemistry Surface Science and Electrochemistry Seven Volume Set summarizes current fundamental knowledge of interfacial chemistry bringing readers the latest developments in the field As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro catalysts in food production pollution control energy conversion and storage medical applications requiring biocompatibility drug delivery and more This book provides an interdisciplinary view that lies at the intersection of these fields Presents fundamental knowledge of interfacial



chemistry surface science and electrochemistry and provides cutting edge research from academics and practitioners across various fields and global regions

**Modelling of Plasmonic and Graphene Nanodevices** Joshua Beil, 2017-05-08 The thesis covers a broad range of electronic optical and opto electronic devices and various predicted physical effects In particular it examines the quantum interference transistor effect in graphene nanorings tunable spin filtering and spin dependent negative differential resistance in composite heterostructures based on graphene and ferromagnetic materials optical and novel electro optical bistability and hysteresis in compound systems and the real time control of radiation patterns of optical nanoantennas

Modelling of Plasmonic and Graphene Nanodevices Osvaldo Olivar, 2017-05-17 The thesis covers a broad range of electronic optical and opto electronic devices and various predicted physical effects In particular it examines the quantum interference transistor effect in graphene nanorings tunable spin filtering and spin dependent negative differential resistance in composite heterostructures based on graphene and ferromagnetic materials optical and novel electro optical bistability and hysteresis in compound systems and the real time control of radiation patterns of optical nanoantennas The direction of the main radiation lobe of a regular plasmonic array can be changed abruptly by small variations in external control parameters This optical effect apart from its relevance for applications is a revealing example of the Umklapp process and thus is a visual manifestation of one of the most fundamental laws of solid state physics the conservation of the quasi momentum to within a reciprocal lattice vector

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