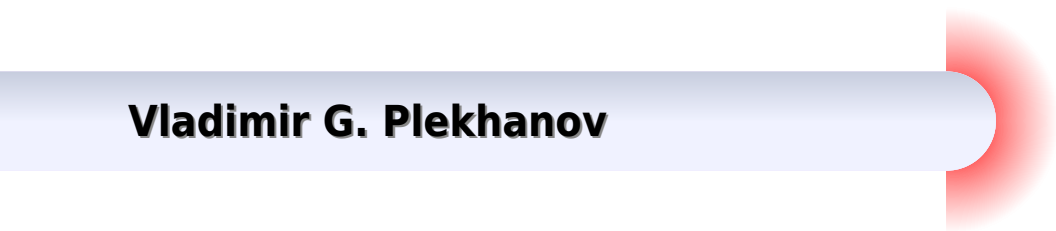


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Length-Scale Dependent Phonon Interactions

Length Scale Dependent Phonon Interactions Topics In Applied Physics

Vladimir G. Plekhanov



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Length-Scale Dependent Phonon Interactions Subhash L. Shindé, Gyaneshwar P. Srivastava, 2013-10-29 This book presents a comprehensive description of phonons and their interactions in systems with different dimensions and length scales. Internationally recognized leaders describe theories and measurements of phonon interactions in relation to the design of materials with exotic properties such as metamaterials, nano mechanical systems, next generation electronic, photonic and acoustic devices, energy harvesting, optical information storage and applications of phonon lasers in a variety of fields. The emergence of techniques for control of semiconductor properties and geometry has enabled engineers to design structures in which functionality is derived from controlling electron behavior. As manufacturing techniques have greatly expanded the list of available materials and the range of attainable length scales, similar opportunities now exist for designing devices whose functionality is derived from controlling phonon behavior. However, progress in this area is hampered by gaps in our knowledge of phonon transport across and along arbitrary interfaces, the scattering of phonons with crystal defects, interface roughness and mass mixing, delocalized electrons, collective electronic excitations and solid acoustic vibrations when these occur in structures with small physical dimensions. This book provides a comprehensive description of phonons and their interactions in systems with different dimensions and length scales. Theories and measurements of phonon interactions are described in relation to the design of materials with exotic properties such as metamaterials, nano mechanical systems, next generation electronic, photonic and acoustic devices, energy harvesting, optical information storage and applications of phonon lasers in a variety of fields. **Introduction to Isotopic Materials Science** Vladimir G. Plekhanov, 2018-12-05 This book describes new trends in the nanoscience of isotopic materials science. Assuming a background in graduate condensed matter physics and covering the fundamental aspects of isotopic materials science from the very beginning, it equips readers to engage in high level professional research in this area. The book's main objective is to provide insight into the question of why solids are the way they are, either because of how their atoms are bonded with one another, because of defects in their structure, or because of how they are produced or processed. Accordingly, it explores the science of how atoms interact, connects the results to real materials properties and demonstrates the engineering concepts that can be used to produce or improve semiconductors by design. In addition, it shows how the concepts discussed are applied in the laboratory. The book addresses the needs of researchers, graduate students and senior undergraduate students alike. Although primarily written for a materials science audience, it will be equally useful to those teaching in electrical engineering, materials science or even chemical engineering or physics curricula. In order to maintain the focus on materials concepts, however, the book does not burden the reader with details of many of the derivations and equations, nor does it delve into the details of electrical engineering topics. *Thermal Management of Gallium Nitride Electronics* Marko Tadjer, Travis Anderson, 2022-07-13 Thermal Management of Gallium Nitride Electronics outlines the technical approaches

undertaken by leaders in the community the challenges they have faced and the resulting advances in the field This book serves as a one stop reference for compound semiconductor device researchers tasked with solving this engineering challenge for future material systems based on ultra wide bandgap semiconductors A number of perspectives are included such as the growth methods of nanocrystalline diamond the materials integration of polycrystalline diamond through wafer bonding and the new physics of thermal transport across heterogeneous interfaces Over the past 10 years the book s authors have performed pioneering experiments in the integration of nanocrystalline diamond capping layers into the fabrication process of compound semiconductor devices Significant research efforts of integrating diamond and GaN have been reported by a number of groups since then thus resulting in active thermal management options that do not necessarily lead to performance derating to avoid self heating during radio frequency or power switching operation of these devices Self heating refers to the increased channel temperature caused by increased energy transfer from electrons to the lattice at high power This book chronicles those breakthroughs Includes the fundamentals of thermal management of wide bandgap semiconductors with historical context a review of common heating issues thermal transport physics and characterization methods Reviews the latest strategies to overcome heating issues through materials modeling growth and device design strategies Touches on emerging real world applications for thermal management strategies in power electronics Journal of Heat Transfer ,2007

Fundamental Issues in Small Scale Heat Transfer American Society of Mechanical Engineers. Winter Annual Meeting,1992 **Physics Briefs** ,1994 *Scientific and Technical Aerospace Reports* ,1995

Advances In Multi-photon Processes And Spectroscopy, Vol 21 Yuichi Fujimura,Sheng-hsien Lin,Albert A Villaeys,2013-12-12 This volume presents recent progress and perspectives in multi photon processes and spectroscopy of atoms ions molecules and solids The subjects in the series cover the experimental and theoretical investigations in the interdisciplinary research fields of natural science including chemistry physics bioscience and material science This volume is the latest volume in a series that is a pioneer in compiling review articles of nonlinear interactions of photons and matter It has made an essential contribution to the development and promotion of the related research fields In view of the rapid growth in multi photon processes and multi photon spectroscopy care has been taken to ensure that the review articles contained in the series are readable not only by active researchers but also those who are not yet experts but intend to enter the field **Soviet Physics, JETP.** ,1987 **Advances in Multi-photon Processes and Spectroscopy** S. H.

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