

QUANTUM PROCESSES IN POLAR SEMICONDUCTORS AND INSULATORS

Harald Stumpf

Vieweg

Quantum Processes In Polar Semiconductors And Insulators Part 2

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Quantum Processes In Polar Semiconductors And Insulators Part 2:

QUANTUM PROCESSES IN POLAR SEMICONDUCTORS AND INSULATORS. Pt. 2 H. Stumpf, 1983 **Quantum Processes in Polar Semiconductors and Insulators** Harald Stumpf, 2013-03-09 American Journal of Physics, 1984 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics **Nonequilibrium Phase Transitions in Semiconductors** Eckehard Schöll, 2012-12-06 Semiconductors can exhibit electrical instabilities like current runaway threshold switching current filamentation or oscillations when they are driven far from thermodynamic equilibrium This book presents a coherent theoretical description of such cooperative phenomena induced by generation and recombination processes of charge carriers in semiconductors **Physics Briefs**, 1992 New Technical Books New York Public Library, 1985 **Quantum Processes in Polar Semiconductors and Insulators** Harald Stumpf, 1983 *Friedr. Vieweg & Sohn Verlagskatalog* Frank Lube, 2013-11-21 Der letzte Gesamtkatalog des Verlages Vieweg erschien im Jahre 1911 aus Anlass des 125jährigen Firmenjubiläums Zwei Weltkriege Wirtschaftsdepressionen die zwölfjährige nationalsozialistische Herrschaft der Aufstieg des Englischen zur Weltwissenschaftssprache die Umbrüche in der Satz Reproduktions und Drucktechnik und der Bergang des Verlages von einem Familienbetrieb zu einem Tochterunternehmen einer international tätigen Verlagsgruppe trennen uns von diesem Datum All das und vieles mehr hat 75 weitere Jahre der Verlagsgeschichte geprägt die seither vergangen sind Kontinuitäten die trotz oder gerade wegen vieler Verwerfungen möglich waren und das Neue das immer wieder einen Ansatz fand aufspürbar zu machen ist ein Ziel des Gesamtkataloges 1786 1986 Wir bergen ihn zu unserem 200jährigen Jubiläum den Wissenschaftshistorikern Fachleuten der Buchhandels und Verlagsgeschichte und der interessierten Öffentlichkeit Da wir selbst immer wieder dankbar auf die Quelle von 1911 zurückgriffen wenn es festzustellen galt woher wir kommen stand die Verpflichtung auch den uns folgenden Generationen den Anschluss an die Verlagsvergangenheit durch einen Gesamtkatalog zu erleichtern Schließlich muss es auch ihrem Urteil berlassen bleiben ob unser Tun und das unserer Vorgänger die Jubiläumsfeier von 1986 rechtfertigte *Composite Particle Dynamics in Quantum Field Theory* Harald Stumpf, Thomas Borne, 2013-03-08 *Comprehensive Semiconductor Science and Technology*, 2024-11-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology *Comprehensive Semiconductor Science and Technology* Second Edition Three Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and use semiconductor devices Written and edited by a truly international team of experts and newly updated to capture key advancements in the field this work delivers an objective yet cohesive review of the semiconductor world The work is divided into three sections fully updated and expanded from the first edition The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems

vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of high purity or doped bulk and epitaxial materials with low defect density and well controlled electrical and optical properties The third section is devoted to design fabrication and assessment of discrete and integrated semiconductor devices It will cover the entire spectrum of devices we see all around us for telecommunications computing automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor world Written and Edited by an international team of experts Compiles the most important semiconductor knowledge into one comprehensive resource Moves from fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper understanding of the field *International Books in Print*, 1995 Barbara Hopkinson,[Anonymus AC01401231],1995

Probability and Heat Friedrich Schlögl,2013-07-29 *Verlagskatalog 1786-1986* Friedr. Vieweg und Sohn,1986

Deutsche Bibliographie ,1984 *Surface Modes in Physics* Bo E. Sernelius,2011-04-27 Electromagnetic surface modes are present at all surfaces and interfaces between material of different dielectric properties These modes have very important effects on numerous physical quantities adhesion capillary force step formation and crystal growth the Casimir effect etc They cause surface tension and wetting and they give rise to forces which are important e g for the stability of colloids This book is a useful and elegant approach to the topic showing how the concept of electromagnetic modes can be developed as a unifying theme for a range of condensed matter physics The author concentrates in finding out the basic origin of the force and how they are developed from the collective excitations of the solids Different materials are treated e g metals semiconductors plasmas liquids and gases all with different collective modes In close relation to the theoretical background the reader is served with a broad field of applications The book serves readers who are concerned with applications to real world problems with a deep knowledge on surface modes and inspires new developments of the field

Metals Abstracts Index ,1977 **Deutsche Nationalbibliographie und Bibliographie des im Ausland**

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Handbook of Conducting Polymers, Fourth Edition - 2

Volume Set John R. Reynolds,Barry C. Thompson,Terje A. Skotheim,2019-11-14 In the last 10 years there have been major advances in fundamental understanding and applications and a vast portfolio of new polymer structures with unique and tailored properties was developed Work moved from a chemical repeat unit structure to one more based on structural control new polymerization methodologies properties processing and applications The 4th Edition takes this into account and will be completely rewritten and reorganized focusing on spin coating spray coating blade slot die coating layer by layer assembly and fiber spinning methods property characterizations of redox interfacial electrical and optical phenomena and commercial

applications **Nonequilibrium Dynamics of Collective Excitations in Quantum Materials** Edoardo

Baldini, 2018-03-28 This book studies the dynamics of fundamental collective excitations in quantum materials focusing on the use of state of the art ultrafast broadband optical spectroscopy Collective behaviour in solids lies at the origin of several cooperative phenomena that can lead to profound transformations instabilities and phase transitions Revealing the dynamics of collective excitations is a topic of pivotal importance in contemporary condensed matter physics as it provides information on the strength and spatial distribution of interactions and correlation The experimental framework explored in this book relies on setting a material out of equilibrium by an ultrashort laser pulse and monitoring the photo induced changes in its optical properties over a broad spectral region in the visible or deep ultraviolet Collective excitations e g plasmons excitons phonons emerge either in the frequency domain as spectral features across the probed range or in the time domain as coherent modes triggered by the pump pulse Mapping the temporal evolution of these collective excitations provides access to the hierarchy of low energy phenomena occurring in the solid during its path towards thermodynamic equilibrium This methodology is used to investigate a number of strongly interacting and correlated materials with an increasing degree of internal complexity beyond conventional band theory

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