

# Quantum Electron Theory of Amorphous Conductors

Aleksandr Ivanovich Gubanov



Springer

# Quantum Electron Theory Of Amorphous Con

**Tao Wei**



## **Quantum Electron Theory Of Amorphous Con:**

**Quantum Electron Theory of Amorphous Conductors** Aleksandr I. Gubanov, 2012-12-06 The electron theory of solids has attracted great attention in recent years mainly because of the numerous practical applications of semiconductors. However, all the reviews and monographs on this subject deal only with crystalline conductors. At present, mainly in the Soviet Union, experimental and theoretical investigations have been extended to liquid and solid amorphous conductors and in particular to such semiconductors. However, all the work published so far in this field is in the form of separate papers scattered throughout various journals and there has as yet been no Soviet or foreign review of the theoretical work on amorphous semiconductors in spite of the increasing interest in them. The investigation of liquid and amorphous semiconductors is of great practical importance first because all the solid semiconductors are usually prepared from the liquid phase and it is important to know the electrical and other properties of this phase; secondly, amorphous semiconductors are beginning to be used in industry, for example, amorphous Sb<sub>2</sub>S<sub>3</sub> films in vidicon tubes. In some cases, especially in optical instruments, amorphous semiconductors have advantages compared with crystals. Theoretical studies of amorphous semiconductors should help in these practical applications. The present monograph is the first attempt to present systematically the quantum electron theory of amorphous conductors. The most interesting in the author's view theoretical papers on this subject published in journals are reviewed and critically compared.

**Quantum Electron Theory of Amorphous Conductors** Aleksandr I. Gubanov, 1966

**Physical Processes in Laser-Materials Interactions** M. Bertolotti, 2013-11-11 It is a pleasure to write a few words as an introduction to the proceedings of the 1980 NATO ASI on Physical Processes in Laser-Material Interaction. This ASI is the ninth course of a series devoted to lasers and their applications held under the responsibility of the Quantum Electronics Division of the European Physical Society and for this reason known as the Europhysics School of Quantum Electronics. Since 1971 the School has been operating with the joint direction of myself as representative of the academic research and Dr D. Roess formerly with Siemens AEG Munich and now with Sick Optik und Elektronik GmbH Munich for the industrial applications. Indeed, the aim of the School is to alternate fundamental and applied frontier topics in the area of quantum electronics and modern optics in order to introduce young research people from universities and industrial R & D laboratories to the new aspects of research opened by the laser.

**Lexikon der Elektronik** Otger Neufang, 2013-03-12

**November 16** Görlich, 2021-11-22 Keine ausführliche Beschreibung für November 16 verfügbar

**Handbook of Advanced Electronic and Photonic Materials and Devices: Chalcogenide glasses and sol-gel materials** Hari Singh Nalwa, 2001 Electronic and photonic materials discussed in this handbook are the key elements of continued scientific and technological advances in the 21st century. The electronic and photonic materials comprising this handbook include semiconductors, superconductors, ferroelectrics, liquid crystals, conducting polymers, organic and superconductors, conductors, nonlinear optical and optoelectronic materials, electrochromic

materials laser materials photoconductors photovoltaic and electroluminescent materials dielectric materials nanostructured materials supramolecular and self assemblies silicon and glasses photosynthetic and respiratory proteins etc etc Some of these materials have already been used and will be the most important components of the semiconductor and photonic industries computers internet information processing and storage telecommunications satellite communications integrated circuits photocopiers solar cells batteries light emitting diodes liquid crystal displays magneto optic memories audio and video systems recordable compact discs video cameras X ray technology color imaging printing flat panel displays optical waveguides cable televisions computer chips molecular sized transistors and switches as well as other emerging cutting edge technologies Electronic and photonic materials are expected to grow to a trillion dollar industry in the new millennium and will be the most dominating forces in the emerging new technologies in the fields of science and engineering This handbook is a unique source of the in depth knowledge of synthesis processing fabrication spectroscopy physical properties and applications of electronic and photonic materials covering everything for today s and developing future technologies This handbook consists of over one hundred state of the art review chapters written by more than 200 world leading experts from 25 different countries With more than 23 000 bibliographic citations and several thousands of figures tables photographs chemical structures and equations this handbook is an invaluable major reference source for scientists and students working in the field of materials science solid state physics chemistry electrical and optical engineering polymer science device engineering and computational engineering photophysics data storage and information technology and technocrats everyone who is involved in science and engineering of electronic and photonic materials Key Features This is the first handbook ever published on electronic and photonic materials 10 volumes summarize the advances in electronic and photonic materials made over past the two decades This handbook is a unique source of the in depth knowledge of synthesis processing spectroscopy physical properties and applications of electronic and photonic materials Over 100 state of the art review chapters written by more than 200 leading experts from 25 different countries About 25 000 bibliographic citations and several thousand figures tables photographs chemical structures and equations Easy access to electronic and photonic materials from a single reference Each chapter is self contained with cross references Single reference having all inorganic organic and biological materials Witten in very clear and concise fashion for easy understanding of structure property relationships in electronic and photonic materials

#### **Quantum electron theory of amorphous conductors A. I.**

Gubanov,1965      Proceedings: Electrical and optical properties of thin film semiconductors György Szigeti,1971      *Liquid Semiconductors* Melvin Cutler,2012-12-02 Liquid Semiconductors explores the status of the subject area s field for the purpose of being a reference to future studies and investigations Although the main area of interest here is the electronic behavior of liquid semiconductors the book still includes basic concepts and information thus serving as a complete source of information in the subject area The book is organized according to the state of development of the field After an introductory

chapter the contents of the book are divided under three major sections The first section Chapters 2-4 focuses on a systematic review of experimental information and attempts to answer some of the basic questions about the field The next section Chapters 5-6 explores the experimental behavior specifically the theoretical basis in its interpretation The final section Chapters 7-8 examines existing information regarding liquid semiconductors in terms of existing theories and concepts in order to come up with specific conclusions This book caters to both students and scholars in the field of physics or chemistry specifically condensed matter Readers with a general interest in the subject area can also use the book as reference

**Semiconductor Physics** Karlheinz Seeger, 2013-11-09 This book has been designed primarily as a text book for a three semester three hour per week senior or graduate course in semiconductor physics for students In electrical engineering and physics It may be supplemented by a solid state physics course Prerequisites are courses in electrodynamics and for some of the chapters basic quantum mechanics Emphasis has been laid on physical rather than technological aspects Semiconductor physics is in fact an excellent and demanding training ground for a future physicist or electrical engineer giving him an opportunity to practice a large variety of physical laws he was introduced to in the more fundamental courses A detailed treatment of the transport and optical properties of semiconductors is given It was decided to omit the usual description of the material properties of certain semiconductors and instead to include the in between equations In mathematical derivations which I hope will make life simpler for a non theoretician In view of the many thousands of papers which appear every year in the field of semiconductor physics and which are distributed among more than 30 journals it would have been impossible for a single person to write comprehensive book unless there had not been some excellent review articles on special topics published in the series Solid State Physics Festkörper Probleme Advances in Solid State Physics Semiconductors and Semimetals and Progress in Semiconductors and I have leaned heavily on such review articles

**Journal of the Institution of Telecommunication Engineers**, 1965-07 *Quantum Electron Theory of Amorphous Conductors. Authorized Translation from the Russian by A. Tybulewicz* Aleksandr Ivanovich Gubanov, 1966

**Confined Electrons and Photons** Elias Burstein, Claude Weisbuch, 2012-12-06 The optical properties of semiconductors have played an important role since the identification of semiconductors as small bandgap materials in the thirties due both to their fundamental interest as a class of solids having specific optical properties and to their many important applications On the former aspect we can cite the fundamental edge absorption and its assignment to direct or indirect transitions many body effects as revealed by exciton formation and photoconductivity On the latter aspect large scale applications such as LEDs and lasers photovoltaic converters photodetectors electro optics and non linear optic devices come to mind The eighties saw a revitalization of the whole field due to the advent of heterostructures of lower dimensionality mainly two dimensional quantum wells which through their enhanced photon matter interaction yielded new devices with unsurpassed performance Although many of the basic phenomena were evidenced through the seventies it was this impact on applications which in

turn led to such a massive investment in fabrication tools thanks to which many new structures and materials were studied yielding further advances in fundamental physics     Proceedings of the Conference ,1971     Soviet Physics ,1984

**Quantum electron theory of amorphous conductors, authorized tr** Aleksandr Ivanovich Gubanov,

*Wissenschaftliche Zeitschrift Der Technischen Universität Dresden* Technische Universität Dresden,1971

*Semiconductors* ,2001-07 English translation of Fizika i tekhnika poluprovodnikov covers semiconductor research in countries of the Former Soviet Union Topics include semiconductor theory transport phenomena in semiconductors optics magneto optics and electro optics of semiconductors semiconductor lasers and semiconductor surface physics Includes book reviews     Basic Notions Of Condensed Matter Physics Philip W. Anderson,2018-03-09 Basic Notions of Condensed Matter Physics is a clear introduction to some of the most significant concepts in the physics of condensed matter The general principles of many body physics and perturbation theory are emphasised providing supportive mathematical structure This is an expansion and restatement of the second half of Nobel Laureate Philip Anderson s classic Concepts in Solids

**Proceedings** ,1971

## Unveiling the Magic of Words: A Report on "**Quantum Electron Theory Of Amorphous Con**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Quantum Electron Theory Of Amorphous Con**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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