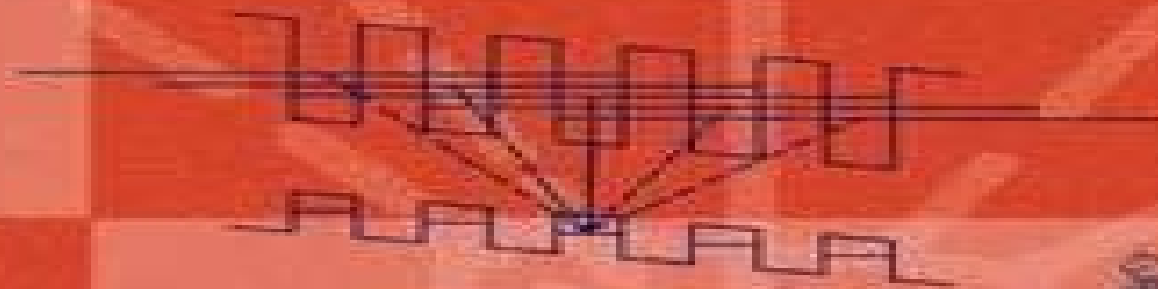


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# Semiconductor Physics

An Introduction

9th Edition



Springer

# Semiconductor Physics An Introduction 9th Edition

**Shun Lien Chuang**



## **Semiconductor Physics An Introduction 9th Edition:**

*Semiconductor Physics* Karlheinz Seeger, 2013-03-09 This book now in its ninth edition still has the character of a textbook with the emphasis on Physics The volume has increased somewhat because several improvements have been made and some new items have been included In Sect 13 2 the new Quantum Cascade Laser which covers the far infrared spectral range has been added In Sect 14 4 the theory of the quantum Hall effect is now based on ballistic transport which in a more general respect without referring to the then still unknown quantum Hall effect was considered already by Rudolf Peierls In the same chapter the recent discovery of a low temperature resistance oscillation in a very pure semiconductor under the influence of combined dc and ac electric fields in addition to a magnetic field is presented Furthermore quantum Hall effect observations with an unprecedented high precision are remarkable and may give a new impetus to theory A new Sect 15 5 presents information about coaxial carbon tubes of nanometer size diameter and how they are integrated as the current transporting element in a field effect transistor In another new addition Sect 15 6 with the title Molecular Electronics the current voltage rectifying characteristics of an organic Langmuir Blodgett film of nanometer thickness is shown These efforts serve to demonstrate where the ever decreasing size of electronic circuits may come to its natural limits The system of units preferred here is the SI system

*Physics of Photonic Devices* Shun Lien Chuang, 2012-11-07 The most up to date book available on the physics of photonic devices This new edition of *Physics of Photonic Devices* incorporates significant advancements in the field of photonics that have occurred since publication of the first edition *Physics of Optoelectronic Devices* New topics covered include a brief history of the invention of semiconductor lasers the Lorentz dipole method and metal plasmas matrix optics surface plasma waveguides optical ring resonators integrated electroabsorption modulator lasers and solar cells It also introduces exciting new fields of research such as surface plasmonics and micro ring resonators the theory of optical gain and absorption in quantum dots and quantum wires and their applications in semiconductor lasers and novel microcavity and photonic crystal lasers quantum cascade lasers and GaN blue green lasers within the context of advanced semiconductor lasers *Physics of Photonic Devices* Second Edition presents novel information that is not yet available in book form elsewhere Many problem sets have been updated the answers to which are available in an all new Solutions Manual for instructors Comprehensive timely and practical *Physics of Photonic Devices* is an invaluable textbook for advanced undergraduate and graduate courses in photonics and an indispensable tool for researchers working in this rapidly growing field

*Fundamentals of the Physics of Solids* Jenő Sólyom, 2008-11-18 The reader is holding the second volume of a three volume textbook on solid state physics This book is the outgrowth of the courses I have taught for many years at Eötvös University Budapest for undergraduate and graduate students under the titles Solid State Physics and Modern Solid State Physics The main motivation for the publication of my lecture notes as a book was that none of the truly numerous textbooks covered all those areas that I felt should be included in a multi semester course Especially if the course

strives to present solid state physics in a unified structure and aims at discussing not only classic chapters of the subject matter but also in more or less detail problems that are of great interest for today's researcher as well. Besides the book presents a much larger material than what can be covered in a two or three semester course. In the first part of the first volume the analysis of crystal symmetries and structure goes into details that certainly cannot be included in a usual course on solid state physics. The same applies among others to the discussion of the methods used in the determination of band structure the properties of Fermi liquids and non Fermi liquids and the theory of unconventional superconductors in the present and third volumes. These parts can be assigned as supplementary reading for interested students or can be discussed in advanced courses.

*Elementary Semiconductor Device Physics* Kazuya Masu, Shuhei Amakawa, 2024-10-31. This book by two leading experts on integrated circuit design adopts an untraditional approach to introducing semiconductor devices to beginners. The authors use circuit theory to provide a digestible explanation of energy band theory and understanding of energy band diagrams. After briefly summarizing the basics of semiconductors the authors describe semiconductor devices from a circuit theoretic point of view making the book especially suitable for circuit design students and engineers. Further to the emphasis on the circuit perspective the book then uses circuit theory to introduce readers to the famously indigestible energy bands of crystalline solids. Additionally the book explains how to read physics from energy band diagrams of semiconductor devices in great detail. The key to appreciating the real power of energy band diagrams is shown to lie in the understanding of the concept of the quasi Fermi levels introduced in 1949 by William Shockley but remaining elusive to date and therefore often omitted from energy band diagrams. To rectify this some of the energy band diagrams presented in this book complete with quasi Fermi levels were drawn using a device simulator a.k.a. technology computer aided design (TCAD) offering quantitative information about device physics. The book could therefore also serve as a hands on course text in TCAD drawn band diagram reading. Because no prior exposure to quantum mechanics is required and the book does not attempt to teach it this book is ideal for students in various disciplines who may or may not be specializing in semiconductor devices. The numerous practical examples of reading TCAD based energy band diagrams are also invaluable to practicing semiconductor device engineers.

Handbook of Nitride Semiconductors and Devices, Electronic and Optical Processes in Nitrides Hadis Morkoç, 2009-07-30. The three volumes of this handbook treat the fundamentals technology and nanotechnology of nitride semiconductors with an extraordinary clarity and depth. They present all the necessary basics of semiconductor and device physics and engineering together with an extensive reference section. Volume 2 addresses the electrical and optical properties of nitride materials. It includes semiconductor metal contacts impurity and carrier concentrations and carrier transport in semiconductors.

**Transport of Information-Carriers in Semiconductors and Nanodevices** El-Saba, Muhammad, 2017-03-31. Rapid developments in technology have led to enhanced electronic systems and applications. When utilized correctly these can have significant impacts on communication and computer systems. *Transport of Information Carriers in Semiconductors and*

Nanodevices is an innovative source of academic material on transport modelling in semiconductor material and nanoscale devices Including a range of perspectives on relevant topics such as charge carriers semiclassical transport theory and organic semiconductors this is an ideal publication for engineers researchers academics professionals and practitioners interested in emerging developments on transport equations that govern information carriers *Towards an Adaptable Millimeter Wave Reflector* Gert Poesen,2008 Presenting the latest developments in telecommunication and millimeter technology this reference explains how recent research should be used for creating adaptable designs and applications and offers alternative telecommunication technology for achieving an adaptable millimeter wave reflector imaging system A discussion of an adaptable reflector that can be integrated in a wave imaging system to reduce noise is also included

**Fundamentals of Photonics** Bahaa E. A. Saleh,Malvin Carl Teich,2007-03-09 Fundamentals of Photonics A complete thoroughly updated full color second edition Now in a new full color edition Fundamentals of Photonics Second Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a logical blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of photons and atoms and semiconductor optics Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography guided wave and fiber optics semiconductor sources and detectors electro optic and acousto optic devices nonlinear optical devices optical interconnects and switches and optical fiber communications Each of the twenty two chapters of the first edition has been thoroughly updated The Second Edition also features entirely new chapters on photonic crystal optics including multilayer and periodic media waveguides holey fibers and resonators and ultrafast optics including femtosecond optical pulses ultrafast nonlinear optics and optical solitons The chapters on optical interconnects and switches and optical fiber communications have been completely rewritten to accommodate current technology Each chapter contains summaries highlighted equations exercises problems and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest

**Theory of Semiconductor Quantum Devices** Fausto Rossi,2011-01-13 Primary goal of this book is to provide a cohesive description of the vast field of semiconductor quantum devices with special emphasis on basic quantum mechanical phenomena governing the electro optical response of new generation nanomaterials The book will cover within a common language different types of optoelectronic nanodevices including quantum cascade laser sources and detectors few electron exciton quantum devices and semiconductor based quantum logic gates The distinguishing feature of the present volume is a unified microscopic treatment of quantum transport and coherent optics phenomena on ultraspace and time scales as well as of their semiclassical counterparts **Defects and doping in Cu<sub>2</sub>O** Francesco Biccari,2012-02-14 This book is the Francesco Biccari s PhD thesis in physics defended at the Sapienza University of Rome in February 2010 The thesis deals

with the study of the defects and doping of cuprous oxide  $\text{Cu}_2\text{O}$  a very long studied semiconductor The interest in  $\text{Cu}_2\text{O}$  is due to its optical properties its low cost and low toxicity which make it a perfect candidate for low cost photovoltaic cells

The Physics of Semiconductors Marius Grundmann, 2021-03-06 The 4th edition of this highly successful textbook features copious material for a complete upper level undergraduate or graduate course guiding readers to the point where they can choose a specialized topic and begin supervised research The textbook provides an integrated approach beginning from the essential principles of solid state and semiconductor physics to their use in various classic and modern semiconductor devices for applications in electronics and photonics The text highlights many practical aspects of semiconductors alloys strain heterostructures nanostructures amorphous semiconductors and noise which are essential aspects of modern semiconductor research but often omitted in other textbooks This textbook also covers advanced topics such as Bragg mirrors resonators polarized and magnetic semiconductors nanowires quantum dots multi junction solar cells thin film transistors and transparent conductive oxides The 4th edition includes many updates and chapters on 2D materials and aspects of topology The text derives explicit formulas for many results to facilitate a better understanding of the topics Having evolved from a highly regarded two semester course on the topic The Physics of Semiconductors requires little or no prior knowledge of solid state physics More than 2100 references guide the reader to historic and current literature including original papers review articles and topical books providing a go to point of reference for experienced researchers as well

□□□□□□□□ □□□,□□□□,□□□□,□□□□,□□□□,2014-07-31      *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

**Resonance Effects of Excitons and Electrons** Ion Geru, Dieter Suter, 2013-06-01 This book presents the various types of resonance effects on excitons biexcitons and the local electronic

centers LEC in solids such as paramagnetic and paraelectric resonances on excitons exciton acoustic resonance at intra and interband transitions radio optical double resonance on excitons hole nuclear double resonance on localized biexcitons ENDOR and acoustic ENDOR on LEC The criteria for the generation of coherent photons phonons and magnons by excitons are explained The interactions of excitons and biexcitons with paramagnetic centers and nuclear spins the indirect interaction between the PC through a field of excitons as well as the quasienergy spectrum of excitons and spin systems are discussed It is proved that the interaction of paramagnetic centers with excitons increases the spin relaxation rate of paramagnetic centers in comparison with the case of their interaction with free carriers The giant magneto optical effects in semi magnetic semiconductors are theoretically interpreted In recent years a new perspective has been added to these systems and their interactions They can be used for storing and processing information in the form of quantum bits qubits the building blocks of quantum computers The basics of this emerging technology are explained and examples of demonstration type quantum computers based on localized spins in solids are discussed

*Springer Handbook of Electronic and Photonic Materials* Safa Kasap, Peter Capper, 2017-10-04 The second updated edition of this essential reference book provides a wealth of detail on a wide range of electronic and photonic materials starting from fundamentals and building up to advanced topics and applications Its extensive coverage with clear illustrations and applications carefully selected chapter sequencing and logical flow makes it very different from other electronic materials handbooks It has been written by professionals in the field and instructors who teach the subject at a university or in corporate laboratories The Springer Handbook of Electronic and Photonic Materials second edition includes practical applications used as examples details of experimental techniques useful tables that summarize equations and most importantly properties of various materials as well as an extensive glossary Along with significant updates to the content and the references the second edition includes a number of new chapters such as those covering novel materials and selected applications This handbook is a valuable resource for graduate students researchers and practicing professionals working in the area of electronic optoelectronic and photonic materials

*Thermoelectric Nanomaterials* Kunihiro Koumoto, Takao Mori, 2013-07-20 Presently there is an intense race throughout the world to develop good enough thermoelectric materials which can be used in wide scale applications This book focuses comprehensively on very recent up to date breakthroughs in thermoelectrics utilizing nanomaterials and methods based in nanoscience Importantly it provides the readers with methodology and concepts utilizing atomic scale and nanoscale materials design such as superlattice structuring atomic network structuring and properties control electron correlation design low dimensionality nanostructuring etc Furthermore also indicates the applications of thermoelectrics expected for the large emerging energy market This book has a wide appeal and application value for anyone being interested in state of the art thermoelectrics and or actual viable applications in nanotechnology

**Introduction To Semiconductor Device Modelling** Christopher M Snowden, 1998-09-29 This book deals mainly with physical device models

which are developed from the carrier transport physics and device geometry considerations The text concentrates on silicon and gallium arsenide devices and includes models of silicon bipolar junction transistors junction field effect transistors JFETs MESFETs silicon and GaAs MESFETs transferred electron devices pn junction diodes and Schottky varactor diodes The modelling techniques of more recent devices such as the heterojunction bipolar transistors HBT and the high electron mobility transistors are discussed This book contains details of models for both equilibrium and non equilibrium transport conditions The modelling Technique of Small scale devices is discussed and techniques applicable to submicron dimensioned devices are included A section on modern quantum transport analysis techniques is included Details of essential numerical schemes are given and a variety of device models are used to illustrate the application of these techniques in various fields

Best of Soviet Semiconductor Physics and Technology Mikhail Levinshstein, Michael Shur, 1991-02 Culled from the thousands of papers published in American Institute of *Physics of Semiconductor Devices* Massimo Rudan, 2017-09-27 This textbook describes the basic physics of semiconductors including the hierarchy of transport models and connects the theory with the functioning of actual semiconductor devices Details are worked out carefully and derived from the basic physical concepts while keeping the internal coherence of the analysis and explaining the different levels of approximation Coverage includes the main steps used in the fabrication process of integrated circuits diffusion thermal oxidation epitaxy and ion implantation Examples are based on silicon due to its industrial importance Several chapters are included that provide the reader with the quantum mechanical concepts necessary for understanding the transport properties of crystals The behavior of crystals incorporating a position dependent impurity distribution is described and the different hierarchical transport models for semiconductor devices are derived from the Boltzmann transport equation to the hydrodynamic and drift diffusion models The transport models are then applied to a detailed description of the main semiconductor device architectures bipolar MOS CMOS including a number of solid state sensors The final chapters are devoted to the measuring methods for semiconductor device parameters and to a brief illustration of the scaling rules and numerical methods applied to the design of semiconductor devices

**Callister's Materials Science and Engineering, Global Edition** William D. Callister, Jr., David G. Rethwisch, 2020-02-05 Callister's Materials Science and Engineering An Introduction 10th Edition promotes student understanding of the three primary types of materials metals ceramics and polymers and composites as well as the relationships that exist between the structural elements of materials and their properties



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