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# Semiconductor Physics

An Introduction

Seventh Edition



Springer

# Semiconductor Physics An Introduction 3ed

**F.F.Y. Wang**



### **Semiconductor Physics An Introduction 3ed:**

*Transport Equations for Semiconductors* Ansgar Jüngel, 2009-03-17 This volume presents a systematic and mathematically accurate description and derivation of transport equations in solid state physics in particular semiconductor devices

*Diode Lasers* D. Sands, 2004-10-30 The compact size reliability and low cost of diode lasers lead to applications throughout modern technology most importantly in modern optical telecommunication systems This book presents a comprehensive introduction to the principles and operation of diode lasers It begins with a review of semiconductor physics and laser fundamentals before describing the most basic homojunction laser Later chapters describe more advanced laser types and their applications including the most recently developed and exotic laser designs The author's intuitive style coupled with an extensive set of worked examples and sample problems make this an outstanding introduction to the subject

Phonons: Theory and Experiments III Peter Brüesch, 2012-12-06 The first volume of this treatment *Phonons Theory and Experiments I* was devoted to the basic concepts of the physics of phonons and to a study of models for interatomic forces The second volume *Phonons Theory and Experiments II* contains a study of experimental techniques and the interpretation of experimental results In the present third volume we treat a number of phenomena which are directly related to phonons The aim of this book is to bridge the gap between theory and experiment An attempt has been made to present the descriptive as well as the analytical aspects of the topics Although emphasis is placed on the role of phonons in the different topics most chapters also contain a general introduction into the specific subject The book is addressed to experimentalists and to theoreticians working in the vast field of dynamical properties of solids It will also prove useful to graduate students starting research in this or related fields The choice of the topics treated was partly determined by the author's own activity in these areas This is particularly the case for the chapters dealing with phonons in one dimensional metals disordered systems super ionic conductors and certain newer aspects of ferroelectricity and melting I am very grateful to my colleagues J Bernasconi V T Hochli and 1

**High-Speed Heterostructure Devices** Patrick Roblin, Hans Rohdin, 2002-03-07 Fuelled by rapid growth in communications technology silicon heterostructures and related high speed semiconductors are spearheading the drive toward smaller faster and lower power devices *High Speed Heterostructure Devices* is a textbook on modern high speed semiconductor devices intended for both graduate students and practising engineers This book is concerned with the underlying physics of heterostructures as well as some of the most recent techniques for modeling and simulating these devices Emphasis is placed on heterostructure devices of the immediate future such as the MODFET HBT and RTD The principles of operation of other devices such as the Bloch Oscillator RITD Gunn diode quantum cascade laser and SOI and LD MOSFETs are also introduced Initially developed for a graduate course taught at Ohio State University the book comes with a complete set of homework problems and a web link to MATLAB programs supporting the lecture material

**The Theory of Magnetism I** Daniel C. Mattis, 2012-12-06 Starting with a historical introduction to the study of

magnetism one of the oldest sciences known to man before considering the most modern theories and observations magnetic bubbles and soap films effects of magnetic impurities in metals and spin glasses this book develops the concepts and the mathematical expertise necessary to understand contemporary research in this field Magnetic systems are important in technology and applied science but they are also prototypes of more complex mathematical structures of great importance to theoretical physics These connections are made repeatedly in this volume After development of the necessary quantum theory of angular momentum and of interacting electron systems a number of models which have been successful in the interpretation of experimental results are introduced the Ising model the Heisenberg model the Stoner theory the Kondo phenomenon and so on In the second edition the thorough approach and the main features which made the first edition a popular text have been retained All important theories are worked out in detail using methods and notation that are uniform throughout Footnotes and an extensive bibliography provide a guide to the original literature A number of problems test the reader's skill

**Phonons: Theory and Experiments II** Peter Bruesch, 2012-12-06 The first part of this three volume treatment Phonons Theory and Experiments I has been devoted to the basic concepts of the physics of phonons and to a study of models of interatomic forces The present second volume Phonons Theory and Experiments II contains a thorough study of experimental techniques and the interpretation of experimental results In a third volume we shall treat a number of phenomena which are directly related to lattice dynamics The aim of this treatment is to bridge the gap between theory and experiment Both experimental aspects and theoretical concepts necessary for an interpretation of experimental data are discussed An attempt has been made to present the descriptive as well as the analytical aspects of the topics Although emphasis is placed on the experimental and theoretical study of the dynamics of atoms in solids most chapters also contain a general introduction to the specific subject The text is addressed to experimentalists and theoreticians working in the vast field of dynamical properties of solids It will also prove useful to graduate students starting research in this or related fields The choice of the topics treated was partly determined by the author's own activity in these areas This is particularly the case for the chapters dealing with infrared Raman and inelastic neutron spectroscopy as well as for some newer developments such as the optical spectroscopy of thin films and adsorbates

**From Hamiltonians to Phase Diagrams** Jürgen Hafner, 2012-12-06 The development of the modern theory of metals and alloys has coincided with great advances in quantum mechanical many body theory in electronic structure calculations in theories of lattice dynamics and of the configurational thermodynamics of crystals in liquid state theory and in the theory of phase transformations For a long time all these different fields expanded quite independently but now their overlap has become sufficiently large that they are beginning to form the basis of a comprehensive first principles theory of the cohesive structural and thermodynamical properties of metals and alloys in the crystalline as well as in the liquid state Today we can set out from the quantum mechanical many body Hamiltonian of the system of electrons and ions and following the path laid out by generations of theoreticians we can

progress far enough to calculate a pressure temperature phase diagram of a metal or a composition temperature phase diagram of a binary alloy by methods which are essentially rigorous and from first principles This book was written with the intention of confronting the materials scientist the metallurgist the physical chemist but also the experimental and theoretical condensed matter physicist with this new and exciting possibility Of course there are limitations to such a vast undertaking as this The selection of the theories and techniques to be discussed as well as the way in which they are presented are necessarily biased by personal inclination and personal expertise

### **Introduction to Solid State**

**Electronics** F.F.Y. Wang,2012-12-02 This textbook is specifically tailored for undergraduate engineering courses offered in the junior year providing a thorough understanding of solid state electronics without relying on the prerequisites of quantum mechanics In contrast to most solid state electronics texts currently available with their generalized treatments of the same topics this is the first text to focus exclusively and in meaningful detail on introductory material The original text has already been in use for 10 years In this new edition additional problems have been added at the end of most chapters These problems are meant not only to review the material covered in the chapter but also to introduce some aspects not covered in the text An amended Solutions Manual is in preparation

**Fermi Surface Effects** Jun Kondo,A. Yoshimori,2012-12-06 This volume is the proceedings of the Tsukuba Institute 87 on Fermi Surface Effects which was held August 27-29 1987 at Tsukuba Science City in Japan The topic of the Institute Fermi surface effects is one of the fascinating subjects of solid state physics It has been known since Sommerfeld's work that the conduction electrons of metals constitute a degenerate Fermi system and it has also been recognized that the occupation number of the electron states has a discontinuity across the Fermi surface Several basic properties of metal electrons stem from this fact Furthermore it gives rise to a singular response of the metal electrons to local and dynamical perturbations of low frequency Such singular behavior of the metal electrons is called a Fermi surface effect In his opening address printed as the Foreword Professor R Kubo described Fermi surface effects as due to wild behavior of the metal electrons The Institute consisted of five invited lectures each of which was two hours long and dealt with theoretical aspects of a subject related to Fermi surface effects Each lecturer is an expert in the field and gave an intensive treatment of his own subject The experiment of inviting only very few lecturers and allotting them ample time for both presentation and discussion seems to have been successful This Institute which was sponsored by the Japan Industrial Technology Association will probably be followed by other institutes forming a series

**Modern Crystallography IV** L.A. Shuvalov,2012-12-06 Modern Crystallography IV is devoted to a systematic and up to date description of fundamental physical properties of solid and liquid crystals These include elastic and mechanical dielectric and ferroelectric magnetic and optical properties transport phenomena and spectroscopy An important feature of the treatment is its use of the crystallographic approach an introduction to which is given in the opening chapter of the book The topics are treated at a level understandable to students who have two years of university physics Researchers and engineers working on practical

applications should also find the book useful as should specialists in other fields who wish to broaden their knowledge of crystallography and materials science The book is written by a group of leading scientists from the Institute of Crystallography of the USSR Academy of Sciences

**One-Dimensional Conductors** Seiichi Kagoshima, Hiroshi Nagasawa, Takashi Sambongi, 2012-12-06 This volume deals with physical properties of electrically one dimensional conductors It includes both a description of basic concepts and a review of recent progress in research One dimensional conductors are those materials in which an electric current flows easily in one specific crystal direction while the resistivity is very high in transverse directions It was about 1973 when much attention began to be focussed on them and investigations started in earnest The research was stimulated by the successful growth of crystals of the organic conductor TTF TCNQ and of the inorganic conductor KCP New concepts characteristic of one dimension were established in the investigations of their properties Many new one dimensional conductors were also found and synthesized This field of research is attractive because of the discovery of new materials phenomena and concepts which have only recently found a place in the framework of traditional solid state physics and materials science The relation of this topic to the wider field of solid state sciences is therefore still uncertain This situation is clearly reflected in the wide distribution of the fields of specialization of researchers Due to this and also to the rapid progress of research no introductory book has been available which covers most of the important fields of research on one dimensional conductors

**Electronic Structure and Optical Properties of Semiconductors** Marvin L. Cohen, James R. Chelikowsky, 2012-12-06 We began planning and writing this book in the late 1970s at the suggestion of Manuel Cardona and Helmut Lotsch We also received considerable encouragement and stimulation from colleagues Some said there was a need for instructional material in this area while others emphasized the utility of a research text We tried to strike a compromise The figures tables and references are included to enable researchers to obtain quickly essential information in this area of semiconductor research For instructors and students we attempt to cover some basic ideas about electronic structure and semiconductor physics with applications to real rather than model solids We wish to thank our colleagues and collaborators whose research results and ideas are presented here Special thanks are due to Jim Phillips who influenced us both during our formative years and afterwards We are grateful to Sari Yamagishi for her patience and skill with the typing and production of the manuscript Finally we acknowledge the great patience of Helmut Lotsch and Manuel Cardona Berkeley CA M L Cohen Minneapolis MN J R Chelikowsky March 1988 VII Contents 1 Introduction 1 2 Theoretical Concepts and Methods 4 2 1 The One Electron Model and Band Structure 7 2 2 Properties of En k 11 3 Pseudopotentials 16 3 1 The Empirical Pseudopotential Method 20 3 2 Self Consistent and Ab Initio Pseudopotentials 25 4 Response Functions and Density of States 30 4 1 Charge Density and Bonding 38

**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

**Electrodynamics of Magnetoactive Media** Israel D. Vagner, B.I. Lemberikov, Peter Rudolf Wyder, 2013-03-09 Our objective was primarily to consider in a separate treatise from the general point of view a theory of as many electrodynamic phenomena in a magnetic field as possible The choice of material was determined by both the absence of such a book and the scientific interests of the authors From the very beginning however we felt it necessary to include the fundamentals of electrodynamics that are required for the thorough analysis of particular processes We believe that it is convenient for a reader to find in the same book a consistent review of some special fields in physics and a complete set of theoretical instruments that are necessary for the clear understanding of more advanced parts of the book There exists a number of excellent textbooks and monographs describing the problems of classical electrodynamics in general and its applications to continuous media We have to acknowledge for example the following fundamental books *Electrodynamics* by A Sommerfeld 1 *The Classical Theory of Fields* by L D Landau and E M Lifshitz 2 *Electromagnetic Theory* by J A Stratton 3 and *Electrodynamics of Continuous Media* by L D Landau and E M Lifshitz 4 This list is certainly not exhaustive However to our knowledge a book specifically covering the theory of electrodynamic phenomena in a magnetic field has not yet been written

**Self-Trapped Excitons** K.S. Song, Richard T. Williams, 2013-03-08 *Self Trapped Excitons* discusses the structure and evolution of the self trapped exciton STE in a wide range of materials It includes a comprehensive review of experiments and extensive tables of data Emphasis is given throughout to the unity of the basic physics underlying various manifestations of self trapping with the theory being developed from a localized atomistic perspective The topics treated in detail in relation to STE relaxation include spontaneous symmetry breaking lattice defect formation radiation damage and electronic sputtering

**Physical Properties of Quasicrystals** Zbigniew M. Stadnik, 2012-12-06 Quasicrystals are a new form of the solid state which differ from the other two known forms crystalline and amorphous by possessing a new type of long range translational order called quasiperiodicity and a noncrystallographic orientational order This book provides an up to date description of the unusual physical properties

of these new materials Emphasis is placed on the experimental results which are compared with those of the corresponding crystalline and amorphous systems and discussed in terms of modern theoretical models Written by leading authorities in the field the book will be of great use both to experienced workers in the field and to uninitiated graduate students

**Principles of Magnetic Resonance** Charles P. Slichter, 2013-04-17 The first edition of this book was written in 1961 when I was Morris Loeb Lecturer in Physics at Harvard In the preface I wrote The problem faced by a beginner today is enormous If he attempts to read a current article he often finds that the first paragraph refers to an earlier paper on which the whole article is based and with which the author naturally assumes familiarity That reference in turn is based on another so the hapless student finds himself in a seemingly endless retreat I have felt that graduate students or others beginning research in magnetic resonance needed a book which really went into the details of calculations yet was aimed at the beginner rather than the expert The original goal was to treat only those topics that are essential to an understanding of the literature Thus the goal was to be selective rather than comprehensive With the passage of time important new concepts were becoming so all pervasive that I felt the need to add them That led to the second edition which Dr Lotsch Physics Editor of Springer Verlag encouraged me to write and which helped launch the Springer Series in Solid State Sciences Now ten years later that book and its 1980 revised printing is no longer available Meanwhile workers in magnetic resonance have continued to develop startling new insights

**Magneto-Optics** Satoru Sugano, Norimichi Kojima, 2013-03-09 This book is designed to provide graduate students and research beginners with an introductory review of recent developments in the field of microscopic magneto optics The field contains the most important subjects in solid state physics chemical physics and electronic engineering Microscopic studies of magneto optics stem from those of ligand field spectra of paramagnetic ions in solids and liquids which are also well known to have brought developments in material research for solid state lasers As the introductory chapter of this monograph Chap 1 deals with the fundamental properties of ligand field spectra in useful solids Chapter 2 is on elementary excitations such as magnons and excitons in magnetically ordered crystals a central aspect of recent developments in microscopic magneto optics Chapter 3 concerns Raman spectroscopy accompanying magnetic excitations of high energies in strongly correlated electron systems which are related to high  $T_c$  superconductors Chapter 4 is on recent developments in the studies of non linear optical effects citing experiments for  $\text{Cr}^{2+}$  and  $\text{d}^3$  scribing a microscopic theory for its second harmonic generation In Chap 5 after introducing a phenomenological theory of the Faraday and Kerr effects we present a microscopic theory based on the ligand field theory and discuss the future developments Chapter 6 concerns diluted magnetic semiconductors discussing formation magnetic properties and quantum confinement effects of magnetic polarons Chapter 7 is also on diluted magnetic semiconductors emphasizing the importance in growing new magnetic semiconductors and in studying their remarkable magneto optical properties

**Electron Liquids** Akira Isihara, 2012-12-06 Press Gordon Breach Science Publishers Inc and IOP Publishing Ltd The author's original work in this



book was supported by the National Science Foundation and the Office of Naval Research Buffalo NY A Isihara July 1992

Preface The study of electronic properties reveals a common basis for a variety of systems including gaseous plasmas ionic solutions metals and semiconductors This study started with one electron properties in free space as discussed in solid state books However significant progress has been made recently in more realistic and complicated cases with interactions confinements impurities and fields Moreover the recent discoveries of the quantum Hall effect high  $T_c$  superconductors and localization phenomena along with the introduction of low dimensional materials have opened new areas and have led to a tremendous number of articles in existing journals and even new specialized journals This book has been written to provide a new comprehensive review on electronic properties in such diverse areas and materials The title indicates emphasis on electron correlations Chapter 1 starts with an introductory description of electron systems including classification characterization and models It provides the reader with a general account of the amazingly diverse electron systems It is followed by discussions on strongly coupled gaseous plasmas electron hole liquids magnetic response low dimensional systems heavy Fermions high  $T_c$  superconductivity localization and the quantum Hall effect

**Electron Spectrum of Gapless Semiconductors** J. Tsirlin, 2012-12-06 Electron Spectrum of Gapless Semiconductors presents the peculiarities of physical properties of a comparatively new class of solids gapless semiconductors GS These peculiarities are determined by the main feature of the electron spectrum namely the absence of a gap between the conduction and valence bands GSs form a boundary between metals and semiconductors On the other hand GSs are of practical interest since they are very sensitive to impurities and to the influence of light magnetic and electric fields and pressure

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