



SEMICONDUCTOR PHYSICS AND DEVICES

Basic Principles

Donald A. Neamen

Fourth Edition

Basic Semiconductor Physics

Simon M. Sze, Yiming Li, Kwok K. Ng



Basic Semiconductor Physics:

Semiconductor Physics And Devices: Basic Principles Neamen, Basic Semiconductor Physics Chihiro Hamaguchi, 2009-12-09 When the first edition of Basic Semiconductor Physics was published in 2001 there were already many books review papers and scientific journals dealing with various aspects of semiconductor physics Since many of them were dealing with special aspects of newly observed phenomena or with very fundamental physics it was very difficult to understand the advanced physics of semiconductors without the detailed knowledge of semiconductor physics For this purpose the author published the first edition for the readers who are involved with semiconductor research and development Basic Semiconductor Physics deals with details of energy band structures effective mass equation and $k \cdot p$ perturbation and then describes very important phenomena in semiconductors such as optical transport magnetoresistance and quantum phenomena Some of my friends wrote to me that the textbook is not only basic but advanced and that the title of the book does not reflect the contents However I am still convinced that the title is appropriate because the advanced physics of semiconductor may be understood with the knowledge of the fundamental physics In addition new and advanced phenomena served in semiconductors at an early time are becoming well known and thus classified in basic physics After the publication of the first edition many typographical errors have been pointed out and the corrected version was published in 2006 The publisher and my friends persuade me to revise the book adding new chapters keeping the subject at the appropriate level

Semiconductor Devices Jasprit Singh, 2000-08-03 This introductory text designed for the first course in semiconductor physics presents a well balanced coverage of semiconductor physics and device operation and shows how devices are optimized for applications The text begins with an exploration of the basic physical processes upon which all semiconductor devices diodes transistor light emitters and detectors are based Topics such as bandstructure effective masses holes doping carrier transport and lifetimes are discussed Next the author focuses on the operation of the important semiconductor devices along with issues relating to the optimization of device performance Issues such as how doping device dimensions and parasitic effects influence device operation are also included The book is appropriate for the following courses Device Physics Semiconductor Devices Device Electronics Physics of Semiconductor Devices Integrated Circuit Devices Device Electronics Solid State Devices Basic Semiconductor Physics James Fordemwalt, DM Data Inc, 1993 Semiconductor Physics and Devices Donald A. Neamen, 1997 **Fundamentals of Semiconductor Physics** Mijoe Joseph, 2015-05-11 Semiconductors have made an enormous impact on 20th century science and technology This is because components made from semiconductors have very favorable properties such as low energy consumption compactness and high reliability and so they now dominate electronics and radio engineering Semiconductors are indispensable for space exploration and where the requirements of small size low weight and low energy consumption are especially stringent The book uses quantum mechanical concepts and band theory to present the theory of semiconductors in a comprehensible for It also describes how

basic semiconductor devices e.g diodes transistors and lasers operate The book was written for senior high school students interested in physics

Physics of Semiconductor Devices J.-P. Colinge, C.A. Colinge, 2005-10-03 Physics of Semiconductor Devices covers both basic classic topics such as energy band theory and the gradual channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short channel effects low dimensional devices and single electron transistors Concepts are introduced to the reader in a simple way often using comparisons to everyday life experiences such as simple fluid mechanics They are then explained in depth and mathematical developments are fully described Physics of Semiconductor Devices contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner

Semiconductor Physics And Devices Donald Neamen, 2012 Provides a basis for understanding the characteristics operation and limitations of semiconductor devices This title deals with the electrical properties and characteristics of semiconductor materials and devices It intends to bring together quantum mechanics the quantum theory of solids and semiconductor material physics

Semiconductor Physics and Applications M. Balkanski, Richard Fisher Wallis, 2000-08-31 The textbook combines a thorough theoretical treatment of the basic physics of semiconductors with applications to practical devices by putting special emphasis on the physical principles upon which these devices operate Graduate students and lecturers in semiconductor physics condensed matter physics electromagnetic theory and quantum mechanics will find this a useful textbook and reference work

Introductory Semiconductor Device Physics Greg Parker, 2004-09-30 Introduction to Semiconductor Device Physics is a popular and established text that offers a thorough introduction to the underlying physics of semiconductor devices It begins with a review of basic solid state physics then goes on to describe the properties of semiconductors including energy bands the concept of effective mass carrier concentration

Fundamentals Of Semiconductor Physics And Devices Rolf Enderlein, 1997-02-27 This book is an introduction to the principles of semiconductor physics linking its scientific aspects with practical applications It is addressed to both readers who wish to learn semiconductor physics and those seeking to understand semiconductor devices It is particularly well suited for those who want to do both Intended as a teaching vehicle the book is written in an expository manner aimed at conveying a deep and coherent understanding of the field It provides clear and complete derivations of the basic concepts of modern semiconductor physics The mathematical arguments and physical interpretations are well balanced they are presented in a measure designed to ensure the integrity of the delivery of the subject matter in a fully comprehensible form Experimental procedures and measured data are included as well The reader is generally not expected to have background in quantum mechanics and solid state physics beyond the most elementary level Nonetheless the presentation of this book is planned to bring the student to the point of research design capability as a scientist or engineer Moreover it is sufficiently well endowed with detailed knowledge of the field including recent developments bearing on

submicron semiconductor structures that the book also constitutes a valuable reference resource In Chapter 1 basic features of the atomic structures chemical nature and the macroscopic properties of semiconductors are discussed The band structure of ideal semiconductor crystals is treated in Chapter 2 together with the underlying one electron picture and other fundamental concepts Chapter 2 also provides the requisite background of the tight binding method and the $k \cdot p$ method which are later used extensively The electron states of shallow and deep centers clean semiconductor surfaces quantum wells and superlattices as well as the effects of external electric and magnetic fields are treated in Chapter 3 The one or multi band effective mass theory is used wherever this method is applicable A summary of group theory for application in semiconductor physics is given in an Appendix Chapter 4 deals with the statistical distribution of charge carriers over the band and localized states in thermodynamic equilibrium Non equilibrium processes in semiconductors are treated in Chapter 5 The physics of semiconductor junctions pn hetero metal and insulator is developed in Chapter 6 under conditions of thermodynamic equilibrium and in Chapter 7 under non equilibrium conditions On this basis the most important electronic and opto electronic semiconductor devices are treated among them uni and bi polar transistors photodetectors solar cells and injection lasers A summary of group theory for applications in semiconductors is given in an Appendix

Semiconductor Device Physics and Design Umesh Mishra,Jasprit Singh,2007-11-28 Semiconductor Device Physics and Design teaches readers how to approach device design from the point of view of someone who wants to improve devices and can see the opportunity and challenges It begins with coverage of basic physics concepts including the physics behind polar heterostructures and strained heterostructures The book then details the important devices ranging from p n diodes to bipolar and field effect devices By relating device design to device performance and then relating device needs to system use the student can see how device design works in the real world Basic Semiconductor Physics Hamaguchi,2004-01-01

Physics of Semiconductor Devices Simon M. Sze,Yiming Li,Kwok K. Ng,2021-03-19 The new edition of the most detailed and comprehensive single volume reference on major semiconductor devices The Fourth Edition of Physics of Semiconductor Devices remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar unipolar special microwave and optoelectronic devices This fully updated and expanded edition includes approximately 1 000 references to original research papers and review articles more than 650 high quality technical illustrations and over two dozen tables of material parameters Divided into five parts the text first provides a summary of semiconductor properties covering energy band carrier concentration and transport properties The second part surveys the basic building blocks of semiconductor devices including p n junctions metal semiconductor contacts and metal insulator semiconductor MIS capacitors Part III examines bipolar transistors MOSFETs MOS field effect transistors and other field effect transistors such as JFETs junction field effect transistors and MESFETs metal semiconductor field effect transistors Part IV focuses on negative resistance and power devices The book concludes with coverage of photonic devices and sensors

including light emitting diodes LEDs solar cells and various photodetectors and semiconductor sensors This classic volume the standard textbook and reference in the field of semiconductor devices Provides the practical foundation necessary for understanding the devices currently in use and evaluating the performance and limitations of future devices Offers completely updated and revised information that reflects advances in device concepts performance and application Features discussions of topics of contemporary interest such as applications of photonic devices that convert optical energy to electric energy Includes numerous problem sets real world examples tables figures and illustrations several useful appendices and a detailed solutions manual for Instructor s only Explores new work on leading edge technologies such as MODFETs resonant tunneling diodes quantum cascade lasers single electron transistors real space transfer devices and MOS controlled thyristors

Physics of Semiconductor Devices Fourth Edition is an indispensable resource for design engineers research scientists industrial and electronics engineering managers and graduate students in the field

Semiconductor Materials B.G. Yacobi, 2003-01-31 The main objective of this book is to provide an introductory perspective of the basic principles of semiconductors being an integrated overview of the basic properties applications and characterization of semiconductors in a single volume This book is suitable for both undergraduate and graduate students and for researchers working in a wide variety of fields in physical and engineering sciences who require an introductory and concise description of the field of semiconductors

Essentials of Semiconductor Physics W. Tom Wenckebach, 1999-11-05 Provides a modern introduction to semiconductor physics presenting the basic information necessary to understand semiconductors along with some of the latest theories and developments Based on the author s undergraduate course this book bridges the gap between basic subjects such as quantum mechanics and Maxwell s equations and the fundamental processes determining the behaviour of semiconductors Following a quantum mechanics approach this text is predominantly aimed at scientists rather than engineers and forms the basis for the understanding of modern mesoscopic physics in semiconductors and quantum devices like resonant tunneling diodes Rather than attempting to comprehensively cover all aspects of semiconductor physics this text aims to cover the most important and interesting aspects of this subject to scientists Starting with the development of semiconductor physics from basic quantum mechanics the text moves on to cover band structure and effective mass theory before covering electron phonon coupling and charge transport It concludes with a chapter on optical transitions Students will need some knowledge of quantum mechanics and solid state although this is covered to some extent in the book

FEATURES Concise introduction to the basics of semiconductor physics Bridges the gap between fundamental subjects such as quantum mechanics and Maxwell s equations and the processes determining the behaviour of semiconductors Describes semiconductor theory from a full quantum mechanical approach An accessible introduction avoiding reliance on group theory

CONTENTS Preface Notation Conventions Introduction Electrons nuclei and Hamiltonians Band Structure The k p Approximation Effective Mass Theory The Crystal Lattice Electron phonon Coupling Charge Transport Optical Transitions

Band Electrons in an Optical Field Appendix A The Hydrogen Atom Appendix B The Harmonic Oscillator Appendix C Perturbation Theory Appendix D Tensors in Cubic Crystals Appendix E The Classical Limit Appendix F Some Fourier Transforms Appendix G Exercises Bibliography

Transport Equations for Semiconductors Ansgar Jünger, 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

Semiconductor Devices Simon M. Sze, Ming-Kwei Lee, 2012-08-07 The awaited revision of *Semiconductor Devices Physics and Technology* offers more than 50% new or revised material that reflects a multitude of important discoveries and advances in device physics and integrated circuit processing Offering a basic introduction to physical principles of modern semiconductor devices and their advanced fabrication technology the third edition presents students with theoretical and practical aspects of every step in device characterizations and fabrication with an emphasis on integrated circuits Divided into three parts this text covers the basic properties of semiconductor materials emphasizing silicon and gallium arsenide the physics and characteristics of semiconductor devices bipolar unipolar special microwave and photonic devices and the latest processing technologies from crystal growth to lithographic pattern transfer

[Introduction to Semiconductor Physics and Devices](#) Mykhaylo Evstigneev, 2022-09-29 This classroom tested textbook provides a self contained one semester course in semiconductor physics and devices that is ideal preparation for students to enter burgeoning quantum industries Unlike other textbooks on semiconductor device physics it provides a brief but comprehensive introduction to quantum physics and statistical physics with derivations and explanations of the key facts that are suitable for second year undergraduates rather than simply postulating the main results The book is structured into three parts each of which can be covered in around ten lectures The first part covers fundamental background material such as quantum and statistical physics and elements of crystallography and band theory of solids Since this provides a vital foundation for the rest of the text concepts are explained and derived in more detail than in comparable texts For example the concepts of measurement and collapse of the wave function which are typically omitted are presented in this text in language accessible to second year students The second part covers semiconductors in and out of equilibrium and gives details which are not commonly presented such as a derivation of the density of states using dimensional analysis and calculation of the concentration of ionized impurities from the grand canonical distribution Special attention is paid to the solution of Poisson's equation a topic that is feared by many undergraduates but is brought back down to earth by techniques and analogies from first year physics Finally in the third part the material in parts 2 and 3 is applied to describe simple semiconductor devices including the MOSFET the Schottky and PN junction diodes and optoelectronic devices With a wide range of exercises this textbook is readily adoptable for an undergraduate course on semiconductor physics devices and with its emphasis on consolidating and applying knowledge of fundamental physics it will leave students in engineering and the physical sciences well prepared for a future where quantum industries proliferate

Semiconductor Physics Karlheinz

Seeger, 2013-06-29 This book now in its eighth edition still has the character of a textbook with the emphasis on Physics I have refrained from sacrificing topics such as the Seebeck Thomson Peltier and quantum Hall effects although they do not have a large scale practical application The various kinds of field effect transistors such as HBT HEMT MODFET and the chip technology have not been considered because going into details would necessarily end up with referring the interested reader to commercially available computer programs i e to the Big Business world What is new compared with the previous edition In Chap 1 you will now find a short description of production processes of pure single crystal silicon which is nearly free of lattice defects In Sect 4 14 the calculation of current in a sample subject to combined de and high frequency ac fields is based on quantum mechanics rather than classical physics called photon assisted tunneling The calculation is applied to charge transport in quantum wires and dots in Chap 14 This chapter includes production methods for quantum dots in their regular arrangement and a dot laser which operates at room temperature In Chap 15 there is a new section on doped Fullerenes in view of a field effect transistor based on this material There are two more appendices One provides a calculation of the potentials in quantum wells and the other is a table of 38 semiconductors and semimetals with their characteristic data

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