

Semiconductor Physics

Semiconductors

- Charge Carriers
- Doping
- Transport of Carriers

PN Junction

- Structure
- Reverse and Forward Bias Conditions
- I/V Characteristics
- Circuit Models

- Semiconductor devices serve as heart of microelectronics.
- PN junction is the most fundamental semiconductor device.

Basic Semiconductor Physics

Donald A. Neamen



Basic Semiconductor Physics:

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.

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 Physics and Devices Donald A. Neamen,1992 Semiconductor Physics and Devices brings together the fundamental physics semiconductor material physics and semiconductor device physics required to understand semiconductor device characteristics operation and limitations It covers the three basic types of transistors bipolar JFET and MOSFET and includes discussions about processing techniques such as diffusion and ion implantation The book features important learning tools such as chapter preview sections chapter summary and review sections extensive examples chapter glossaries many problems chapter reading lists and an appendix with answers to selected problems **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 *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,2011-01-18 With its strong pedagogy superior readability and thorough examination of the physics of semiconductor material Semiconductor Physics and Devices 4 e provides a basis for understanding the characteristics operation and limitations of semiconductor devices Neamen s Semiconductor Physics and Devices deals with the electrical properties and characteristics of semiconductor materials and devices The goal of this book is to bring together quantum mechanics the quantum theory of solids semiconductor material physics and semiconductor device physics in a clear and understandable way *Basic Semiconductor Physics* Hamaguchi,2004-01-01 **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 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 Jacket

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