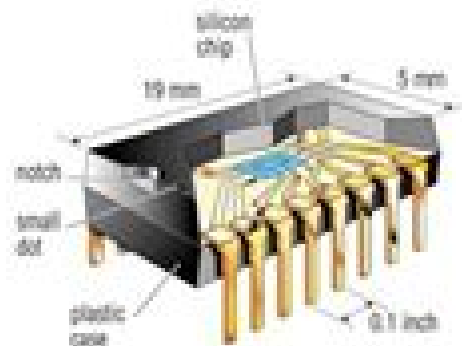


Welcome to Solid State Devices !

ECE 4339: Physical Principles of Solid State Devices

Len Trombetta

Summer 2007



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Physical Principles Of Solid State Devices

Jorge Garcia, Julio A Gonzalo, Jose De Frutos



Physical Principles Of Solid State Devices:

Physical Principles of Solid State Devices Roger A. Holmes, 1970 *Physical Foundations of Solid-State Devices* E. Fred Schubert, 2022-02-22 It is beneficial for technical personnel working in the field of microelectronics optoelectronics and photonics to get a good understanding of the physical foundations of modern semiconductor devices Questions that technical personnel may ask are How are electrons propagating in the periodic potential of a crystal lattice What are the foundations of semiconductor heterostructure devices How does quantum mechanics relate to semiconductor heterostructures This book tries to answer questions such as these The book provides a basis for the understanding of modern semiconductor devices that have dimensions in the nanometer range that is comparable to the electron de Broglie wavelength For such small spatial dimensions classical physics no longer gives a full description of physical processes The inclusion of quantum mechanical principles becomes mandatory and provides a useful description of common physical processes in electronic optoelectronic and photonic devices Chapters 1 to 11 teach the quantum mechanical principles including the postulates of quantum mechanics operators the uncertainty principle the Schrödinger equation non periodic and periodic potentials quantum wells and perturbation theory Chapters 12 to 20 apply these principles to semiconductor devices and discuss the density of states semiconductor statistics carrier concentrations doping tunneling and aspects of heterostructure devices The 2022 edition is a complete revision of the 2015 edition and also updates the formatting to make it easily viewable with electronic display devices *Solid State Physics* R. Mukhopadhyay, 1999 **Fundamentals of Solid State Engineering** Manijeh Razeghi, 2006-06-12 Fundamentals of Solid State Engineering 2nd Edition provides a multi disciplinary introduction to Solid State Engineering combining concepts from physics chemistry electrical engineering materials science and mechanical engineering Basic physics concepts are introduced followed by a thorough treatment of the technology for solid state engineering Topics include compound semiconductor bulk and epitaxial thin films growth techniques current semiconductor device processing and nano fabrication technologies Examples of semiconductor devices and a description of their theory of operation are then discussed including transistors semiconductor lasers and photodetectors Revised throughout this second edition includes new chapters on the reciprocal lattice optical properties of semiconductors semiconductor heterostructures semiconductor characterization techniques and an introduction to lasers Additions and improvements have been made to the material on photodetectors and quantum mechanics as well as to the problem sections Guide to the Literature of Engineering, Mathematics, and the Physical Sciences Sylvia Weiser, 1972 **Fundamentals of Semiconductor Physics and Devices** Rolf Enderlein, Norman J. M. Horing, 1997 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

Elements of Solid State Physics Michael N. Rudden, John Wilson, 1993-05-24 Elements of Solid State Physics Second Edition M N Rudden and J Wilson University of Northumbria at Newcastle Newcastle upon Tyne UK This textbook provides a basic introduction to the principles of solid state physics and semiconductor devices and will prove essential for first and second year students of physics materials science and electrical electronic engineering courses It assumes no prior knowledge of quantum or statistical mechanics and relies on simple models to illustrate the physical principles However the opportunity has been taken in this edition to extend the concept of energy bands to a consideration of $E \cdot k$ curves and certain new material has been added notably relating to superconductivity and optoelectronic devices including lasers following significant developments in these areas Elements of Solid State Physics Second Edition presents the student with an essentially non mathematical approach to the subject Arranged in a logical sequence with many clear illustrations each chapter has a number of worked examples and discussion points as well as questions and answers Readers of this fully revised and updated edition will receive a thorough grounding in the principles of

solid state physics and should have sufficient knowledge about modern electronic devices to proceed to more advanced texts in this area

Main Contents Some Aspects of Modern Physics Structure of Crystalline Solids Theories of Conduction and Magnetism Energy Bands in Solids Quantum Theory of Conduction Semiconductor Devices **Dictionary Catalog of the Department Library** United States. Department of the Interior. Library, 1969 [Electronic Properties of Materials](#) Rolf E. Hummel, 2012-12-06 Books are seldom finished At best they are abandoned The second edition of [Electronic Properties of Materials](#) has been in use now for about seven years During this time my publisher gave me ample opportunities to update and improve the text whenever the book was reprinted There were about six of these reprinting cycles Eventually however it became clear that substantially more new material had to be added to account for the stormy developments which occurred in the field of electrical optical and magnetic materials In particular expanded sections on flat panel displays liquid crystals electroluminescence devices field emission displays and plasma displays were added Further the recent developments in blue and green emitting LEDs and in photonics are included Magnetic storage devices also underwent rapid development Thus magneto optical memories magneto resistance devices and new magnetic materials needed to be covered The sections on dielectric properties ferroelectricity piezoelectricity electrostriction and thermoelectric properties have been expanded Of course the entire text was critically reviewed updated and improved However the most extensive change I undertook was the conversion of all equations to SI units throughout In most of the world and in virtually all of the international scientific journals use of this system of units is required If today's students do not learn to utilize it another generation is lost on this matter In other words it is important that students become comfortable with SI units

Solid State Spectroscopies: Basic Principles And Applications Jorge Garcia, Julio A Gonzalo, Jose De Frutos, 2002-01-15 Materials physics is a very active research field at present and it is expected to remain so in the foreseeable future Different spectroscopies are currently used to investigate the structure and dynamics of crystalline materials Some traditional spectroscopies are presented in this book optical magnetic resonance ultrasonic Brillouin neutron scattering soft mode and dielectric response spectroscopies For all of them the presentation is complemented with some reference material for more modern or sophisticated spectroscopies This book should be useful as an introductory textbook for a short course on solid state spectroscopies A number of exercises are worked out throughout the text Ferro and piezoelectric materials and their phase transitions are paid special attention

Semiconductor Physical Electronics Sheng S. Li, 2012-12-06 The purpose of this book is to provide the reader with a self contained treatment of fundamental solid state and semiconductor device physics The material presented in the text is based upon the lecture notes of a one year graduate course sequence taught by this author for many years in the Department of Electrical Engineering of the University of Florida It is intended as an introductory textbook for graduate students in electrical engineering However many students from other disciplines and backgrounds such as chemical engineering materials science and physics have also taken this course sequence and will be

interested in the material presented herein This book may also serve as a general reference for device engineers in the semiconductor industry The present volume covers a wide variety of topics on basic solid state physics and physical principles of various semiconductor devices The main subjects covered include crystal structures lattice dynamics semiconductor statistics energy band theory excess carrier phenomena and recombination mechanisms carrier transport and scattering mechanisms optical properties photoelectric effects metal semiconductor devices the p n junction diode bipolar junction transistor MOS devices photonic devices quantum effect devices and high speed III V semiconductor devices The text presents a unified and balanced treatment of the physics of semiconductor materials and devices It is intended to provide physicists and materials scientists with more device backgrounds and device engineers with a broader knowledge of fundamental solid state physics

Physics of High-Speed Transistors Juras Pozela, 2013-06-29 This book examines the physical principles behind the operation of high speed transistors operating at frequencies above 10 GHz and having switching times less than 100 psec If the 1970s cannot be remembered for the opportunities for creating and extensively using transistors operating at such high speeds then the situation has changed radically because of rapid progress in sub micrometer technology for manufacturing transistors and integrated circuits from GaAs and other semiconductor materials and the powerful influx of new physical concepts Not only have transistors having switching speeds of 50 100 psec operating in the 10 20 GHz region been created in recent years but the possibilities for manufacturing transistors operating one to two orders of magnitude faster have been revealed As superhigh speed transistors have been created many of the most important areas of technology such as communications computing technology television radar and the manufacture of scientific industrial and medical equipment have qualitatively changed Microwave transistors operating at millimeter wavelengths make it possible to produce compact and highly efficient equipment for communications and radar technology Transistors with switching speeds better than 10 100 psec make it possible to increase the speed of microprocessors and other computer components to tens of billions of operations per second and thereby solve one of the most pressing problems of modern electronics increasing the speed of digital information processing

Physical Foundations of Solid State and Electron Devices A. M. Ferendeci, 1991 Introductory Physical Concepts Bound Particles Equilibrium Statistical Mechanics Interacting Particles Concepts Basic Properties of Solids Extrinsic Semiconductors Electron Emission Junctions and Related Devices Bipolar Junction Transistors Junction Field Effect Transistors JFET Metal Oxide Semiconductor Transistors High Frequency solid State Devices Electro Optic Devices Semiconductor and Integrated Circuits Processing Technology Gas Discharges Noise Physical Constants

Physical Limitations of Semiconductor Devices Vladislav A. Vashchenko, V. F. Sinkevitch, 2008-03-22 Since the beginning of semiconductor era in microelectronics the methodology of reliability assessment became a well established area In most cases the reliability assessment involves statistical methods for safe operating area and long term reliability parameters at the development of semiconductor processes components and systems

At the same time in case of catastrophic failures at any development phase the major practical method is failure analysis FA. However FA is mainly dealing with detection of consequences of some irreversible event that already happened. This book is focused on the most important and the less summarized reliability aspects. Among them catastrophic failures, impact of local structural inhomogeneities, major principles of physical limitation of safe operating area (SOA), physical mechanisms of the current instability, filamentation and conductivity modulation in particular device types and architectures. Specifically the similar principles and regularities are discussed for electrostatic discharge (ESD) protection devices treating them as a particular case of pulsed power devices. Thus both the most intriguing applications and reliability problems in case of the discrete and the integrated components are covered in this book.

Introduction to Electronic Devices Corrado Di Natale, 2023-06-18. This textbook offers a comprehensive introduction to the basic principles ruling the working mechanism of the most common solid state electronic devices. It covers the physics of semiconductors and the properties of junctions of semiconductors with semiconductors, metals and insulators. The exposition makes a minimal use of quantum mechanics concepts and methods. On the other hand it avoids the pure phenomenological description of the properties of electronic devices. Thus using a semi-classical approach the book provides a rigorous treatment of the subject. The book is addressed to undergraduate students of scientific and technological faculties as well to professionals who wish to be introduced to the basic principles of electronic devices.

Optoelectronics and Spintronics in Smart Thin Films James Ayodele Oke, Tien-Chien Jen, 2023-12-06. Smart thin films composed of functional materials deposited in thin layers have opened new avenues for the development of flexible, lightweight and high performance devices. Optoelectronics and Spintronics in Smart Thin Films presents a comprehensive overview of this emerging area and details the current and near future integration of smart thin films in solar cells and memory storage. Offers an overview of optoelectronics and spintronics. Discusses synthesis of smart nanomaterials. Describes deposition techniques and characterization of thin films. Considers the integration and application of opto-spintronics for technological advancement of solar cells and memory storage devices. Focused on advancing research on this evolving subject, this book is aimed at advanced students, researchers and engineers in materials, chemical, mechanical and electrical engineering as well as applied physics.

Nuclear Science Abstracts, 1974.

Semiconductor Devices and Integrated Electronics A. G. Milnes, 2012-12-06. For some time there has been a need for a semiconductor device book that carries diode and transistor theory beyond an introductory level and yet has space to touch on a wider range of semiconductor device principles and applications. Such topics are covered in specialized monographs numbering many hundreds but the voluminous nature of this literature limits access for students. This book is the outcome of attempts to develop a broad course on devices and integrated electronics for university students at about senior year level. The educational prerequisites are an introductory course in semiconductor junction and transistor concepts and a course on analog and digital circuits that has introduced the concepts of rectification, amplification, oscillators, modulation and logic and

Switching circuits The book should also be of value to professional engineers and physicists because of both the information included and the detailed guide to the literature given by the references The aim has been to bring some measure of order into the subject area examined and to provide a basic structure from which teachers may develop themes that are of most interest to students and themselves Semiconductor devices and integrated circuits are reviewed and fundamental factors that control power levels frequency speed size and cost are discussed The text also briefly mentions how devices are used and presents circuits and comments on representative applications Thus the book seeks a balance between the extremes of device physics and circuit design Scientific and Technical Aerospace Reports ,1987 Research in Building Physics J. Carmeliet,H. Hens,G. Vermeir,2020-12-17 This text provides a broad view of the research performed in building physics at the start of the 21st century The focus of this conference was on combined heat and mass flow in building components performance based design of building enclosures energy use in buildings sustainable construction users comfort and health and the urban micro climate

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