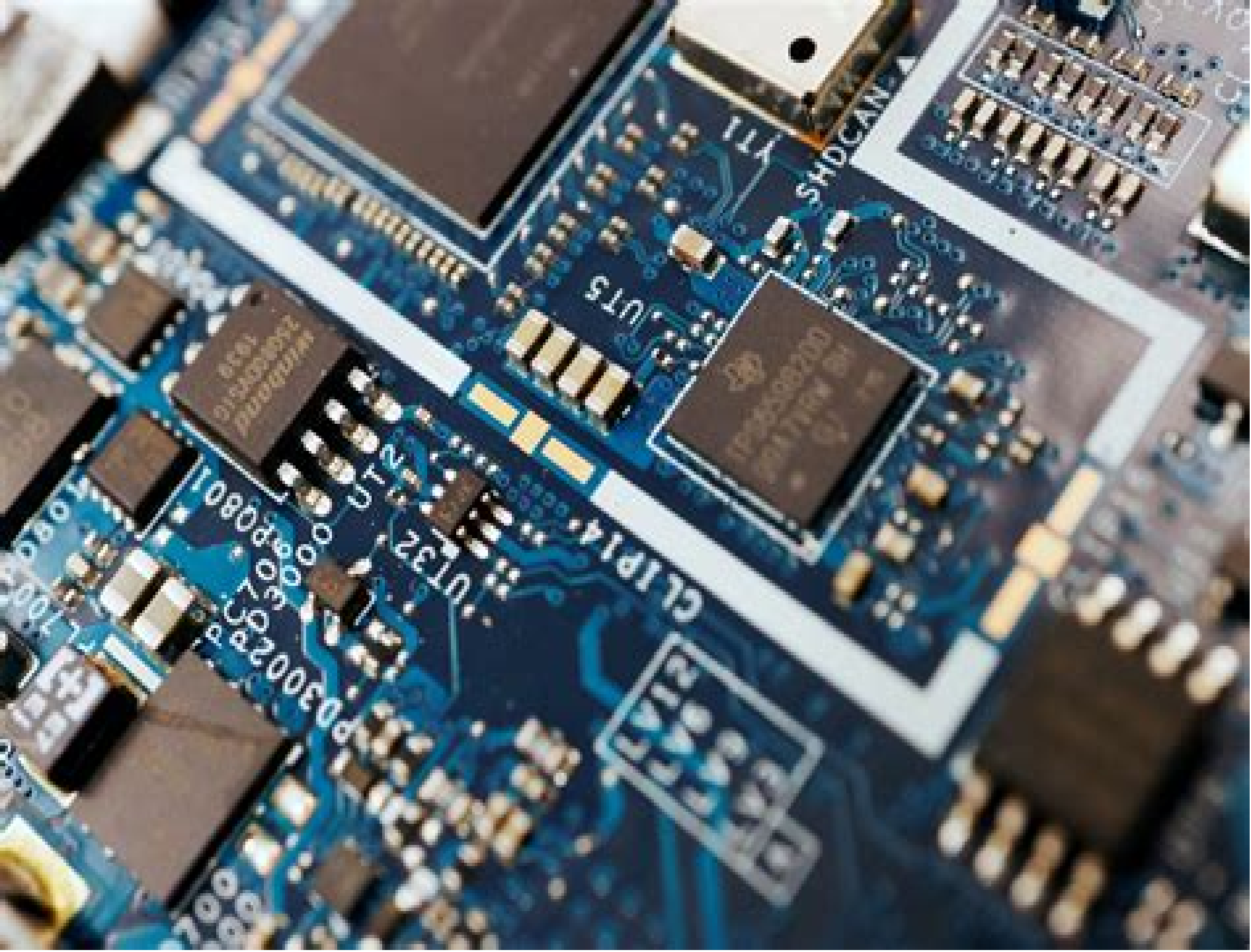




Semiconductors Part I

Mikhail Efimovich Levinsh

Semiconductors Part I:

The Physics of Semiconductors Marius Grundmann, 2006-11-22

Semiconductor devices are nowadays commonplace in every household. In the

late 1940s the invention of the transistor was the start of a rapid development towards ever faster and smaller electronic components. Complex systems are built with these components. The main driver of this development was the economical benefit from packing more and more wiring transistors and functionality on a single chip. Now every human is left with about 100 million transistors on average. Semiconductor devices have also enabled economically reasonable fiber-based optical communication, optical storage and high-frequency amplification and have only recently revolutionized photography, display technology and lighting. Along with these tremendous technological developments, semiconductors have changed the way we work, communicate, entertain and think. The technological sophistication of semiconductor materials and devices is progressing continuously with a large worldwide effort in human and monetary capital, partly evolutionary, partly revolutionary, embracing the possibilities of nanotechnology. For students, semiconductors offer a rich, diverse and exciting field with a great tradition and a bright future. This book is based on the two-semester semiconductor physics course taught at Universität Leipzig. The material gives the students an overview of the subject as a whole and brings them to the point where they can specialize and enter supervised laboratory research. For the interested reader, some additional topics are included in the book that are taught in subsequent more specialized courses. The first semester contains the fundamentals of semiconductor physics. Part I, Chaps 1

17 *Quantum Efficiency in Complex Systems, Part I*, 2010-12-14. Since its inception in 1966, the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well-known authors, editors and contributors. The Willardson and Beer Series, as it is widely known, has succeeded in publishing numerous landmark volumes and chapters. Not only did many of these volumes make an impact at the time of their publication, but they continue to be well-cited years after their original release. Recently, Professor Eicke R. Weber of the University of California at Berkeley joined as a co-editor of the series. Professor Weber, a well-known expert in the field of semiconductor materials, will further contribute to continuing the series' tradition of publishing timely, highly relevant and long-impacting volumes. Some of the recent volumes, such as Hydrogen in Semiconductors, Imperfections in III-V Materials, Epitaxial Microstructures, High-Speed Heterostructure Devices, Oxygen in Silicon, and others, promise that this tradition will be maintained and even expanded. Reflecting the truly interdisciplinary nature of the field, the series covers the volumes in Semiconductors and Semimetals, which have been and will continue to be of great interest to physicists, chemists, materials scientists and device engineers in modern industry. Semiconductors W.M. Jr. Coughran, Julian Cole, Peter Lloyd, Jacob K. White, 2012-12-06

Semiconductor and integrated circuit modeling are an important part of the high-technology chip industry, whose high-performance, low-cost microprocessors and high-density memory designs form the basis for supercomputers, engineering

workstations laptop computers and other modern information appliances There are a variety of differential equation problems that must be solved to facilitate such modeling This two volume set covers three topic areas process modeling and circuit simulation in Volume I and device modeling in Volume II Process modeling provides the geometry and impurity doping characteristics that are prerequisites for device modeling device modeling in turn provides static current and transient charge characteristics needed to specify the so called compact models employed by circuit simulators The goal of these books is to bring together scientists and mathematicians to discuss open problems algorithms to solve such and to form bridges between the diverse disciplines involved **Current Oscillations in Piezoelectric Semiconductors, Part I**, 1966

Semiconductor Physics Karl W. Böer, Udo W. Pohl, 2023-02-02 This handbook gives a complete and detailed survey of the field of semiconductor physics It addresses every fundamental principle the most important research topics and results as well as conventional and emerging new areas of application Additionally it provides all essential reference material on crystalline bulk low dimensional and amorphous semiconductors including valuable data on their optical transport and dynamic properties This updated and extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics such as topological insulators quantum optics magnetic nanostructures and spintronic systems Richly illustrated and authored by a duo of internationally acclaimed experts in solar energy and semiconductor physics this handbook delivers in depth treatment of the field reflecting a combined experience spanning several decades as both researchers and educators Offering a unique perspective on many issues Semiconductor Physics is an invaluable reference for physicists materials scientists and engineers throughout academia and industry **Physics of Semiconductor Devices**

Simon M. Sze, Yiming Li, Kwok K. Ng, 2021-03-03 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

Advanced Semiconductor and Organic Nano-Techniques - Part I Hadis Morkoc, 2003 Physical sciences and engineering as well as biological sciences have recently made great strides in their respective fields More importantly the cross fertilization of ideas paradigms and methodologies have led to the unprecedented technological developments in areas such as information processing full colour semiconductor displays compact biosensors and controlled drug discovery to name a few Top experts in their respective fields have come together to discuss the latest developments and the future of micro nano electronics They investigate issues to be faced in ultimate limits such as single electron transistors zero dimensional systems for unique properties thresholdless lasers electronics based on inexpensive and flexible plastic chips cell manipulation biosensors DNA based computers quantum computing DNA sequencing chips micro fluidics nanomotors based on molecules molecular electronics and recently emerging wide bandgap semiconductors for emitters detectors and power amplifiers Contributions from top experts in this field Covers a wide range of topics

Physics Part I & Part II Class 12 Scorer Guru Dr. J. P. Goel, ,D.C. Upadhyaya, 2023-04-29 Paper I Unit I Electrostatics 1 Electric charge and Electric Field 2 Gauss Theorem 3 Electric Potential 4 Electric Capacitance Unit II Current Electricity 5 Electric Conduction and Ohm s Law 6 Electric Measurements Unit III Magnetic Effects of Electric Current and Magnetism 7 Magnetic Effects of Electric Current 8 Magnetism Unit IV Electromagnetic Induction and Alternating Current 9 Electromagnetic Induction 10 Alternating Current Unit V Electromagnetic Waves 11 Electromagnetic Waves I Log Antilog Table I Value Based Questions VBQ I Board Examination Papers Paper II Unit VI Optics A Ray Optics and Optical Instruments 12 Reflection and Refraction of Light 13 Reflection of Light at Spherical Surfaces Lenses 14 Prism and Scattering of Light 15 Chromatic and Spherical Aberration 16 Optical Instruments Unit VI Optics B Wave Optics 17 Nature of Light and Huygens Principle 18 Interference of Light 19 Diffraction of Light 20 Polarisation of Light Unit VII Dual Nature of Matter and Radiation 21 Particle Nature of Radiation and Wave Nature of Matter Unit VIII Atoms and Nuclei 22 Atomic Physics 23 X Rays 24 Structure of the Nucleus 25 Nuclear Energy 26 Radioactivity Unit IX Electronic Devices 27 Semiconductor Diode and Transistor 28 Digital Electronics Unit X Communication System 29 Principles of Communication Log Antilog Table Value Based Questions VBQ

Semiconductors Probed by Ultrafast Laser Spectroscopy Pt I Robert R.

Alfano,2012-12-02 Semiconductors Probed by Ultrafast Laser Spectroscopy Volume 1 discusses the use of ultrafast laser spectroscopy in studying fast physics in semiconductors It reviews progress on the experimental and theoretical understanding of ultrafast events that occur on a picosecond and nanosecond time scale This volume first explores the relaxation of energy and the momentum of hot carriers and then turns to relaxation of plasmas and phonons It also discusses the dynamics of excitons polaritons and excitonic molecules and reviews transient transport and diffusion of carriers Scientists engineers and graduate students will find this book invaluable Semiconductors Probed by Ultrafast Laser Spectroscopy Pt II Robert R. Alfano,2012-12-02 Semiconductors Probed by Ultrafast Laser Spectroscopy Volume II discusses the use of ultrafast laser spectroscopy in studying fast physics in semiconductors It reviews progress on the experimental and theoretical understanding of ultrafast events that occur on a picosecond and nanosecond time scale This volume discusses electronic relaxation in amorphous semiconductors and the physical mechanisms during and after the interaction of an intense laser pulse with a semiconductor It also covers the relaxation of carriers in semiconductors transient optical pulse propagation and methods of time resolved spectroscopy Scientists engineers and graduate students will find this book invaluable

Semiconductor Optics 1 Heinz Kalt,Claus F. Klingshirn,2019-09-20 This revised and updated edition of the well received book by C Klingshirn provides an introduction to and an overview of all aspects of semiconductor optics from IR to visible and UV It has been split into two volumes and rearranged to offer a clearer structure of the course content Inserts on important experimental techniques as well as sections on topical research have been added to support research oriented teaching and learning Volume 1 provides an introduction to the linear optical properties of semiconductors The mathematical treatment has been kept as elementary as possible to allow an intuitive approach to the understanding of results of semiconductor spectroscopy Building on the phenomenological model of the Lorentz oscillator the book describes the interaction of light with fundamental optical excitations in semiconductors phonons free carriers excitons It also offers a broad review of seminal research results augmented by concise descriptions of the relevant experimental techniques e g Fourier transform IR spectroscopy ellipsometry modulation spectroscopy and spatially resolved methods to name a few Further it picks up on hot topics in current research like quantum structures mono layer semiconductors or Perovskites The experimental aspects of semiconductor optics are complemented by an in depth discussion of group theory in solid state optics Covering subjects ranging from physics to materials science and optoelectronics this book provides a lively and comprehensive introduction to semiconductor optics With over 120 problems more than 480 figures abstracts to each chapter as well as boxed inserts and a detailed index it is intended for use in graduate courses in physics and neighboring sciences like material science and electrical engineering It is also a valuable reference resource for doctoral and advanced researchers

Selected Semiconductor Research Ming-Fu Li,2011 This book on solid state physics has been written with an emphasis on recent developments in quantum many body physics approaches It starts by covering the classical theory of

solids and electrons and describes how this classical model has failed The authors then present the quantum mechanical model of electrons in a lattice and they also discuss the theory of conductivity Extensive reviews on the topic are provided in a compact manner so that any non specialist can follow from the beginning The authors cover the system of magnetism in a similar way and various problems in magnetic materials are discussed The book also discusses the Ising chain the Heisenberg model the Kondo effect and superconductivity amongst other relevant topics In the final chapter the authors present some works related to contemporary research topics such as quantum entanglement in many body systems and quantum simulations They also include a short review of some of the possible applications of solid state quantum information in biological systems

Strain Effect in Semiconductors Yongke Sun, Scott E. Thompson, Toshikazu Nishida, 2009-11-14 Strain Effect in Semiconductors Theory and Device Applications presents the fundamentals and applications of strain in semiconductors and semiconductor devices that is relevant for strain enhanced advanced CMOS technology and strain based piezoresistive MEMS transducers Discusses relevant applications of strain while also focusing on the fundamental physics pertaining to bulk planar and scaled nano devices Hence this book is relevant for current strained Si logic technology as well as for understanding the physics and scaling for future strained nano scale devices

Mathematical Problems in Semiconductor Physics Angelo Marcello Anile, Walter Allegretto, Christian Ringhofer, 2003-09-16 On the the mathematical aspects of the theory of carrier transport in semiconductor devices The subjects covered include hydrodynamical models for semiconductors based on the maximum entropy principle of extended thermodynamics mathematical theory of drift diffusion equations with applications and the methods of asymptotic analysis

Nanoelectronics Devices: Design, Materials, and Applications (Part I) Gopal Rawat, Aniruddh Bahadur Yadav, 2023-10-31 Nanoelectronics Devices Design Materials and Applications provides information about the progress of nanomaterial and nanoelectronic devices and their applications in diverse fields including semiconductor electronics biomedical engineering energy production and agriculture The book is divided into two parts The editors have included a blend of basic and advanced information with references to current research The book is intended as an update for researchers and industry professionals in the field of electronics and nanotechnology It can also serve as a reference book for students taking advanced courses in electronics and technology The editors have included MCQs for evaluating the readers understanding of the topics covered in the book Topics covered in Part 1 include basic knowledge on nanoelectronics with examples of testing different device parameters The present past and future of nanoelectronics An introduction to Nanoelectronics and applicability of Moore s law Transport of charge carrier electrode and measurement of device parameters Fermi level adjustment in junction less transistor Non polar devices and their simulation The negative capacitance in MOSFET devices Effect of electrode in the device operation Second and Sixth group semiconductors FinFET principal and future Electronics and optics integration for fast processing and data communication Batteryless photo detectors Solar cell fabrication and applications Van der Waals assembled nanomaterials

Best of Soviet Semiconductor Physics and Technology, 1989-1990 Mikhail Efimovich Levinshtein, 1995 Each year a large number of first rate articles on the physics and technology of semiconductor devices written by Soviet experts in the field are published However due to the lack of exchange and personal contact most of these unfortunately are neglected by many scientists from the United States Japan as well as Western Europe Consequently many important developments in semiconductor physics are missed by the Western world This book is a serious attempt to bridge the gap between the Soviet and Western scientific communities Most of all it is an effort towards facilitating the communication and sharing of knowledge amongst people from different parts of the world Ultimately the aim is to contribute towards the building of a better world for all one where the knowledge of advanced technology and scientific discoveries is used to improve the quality of life and not the pursuit of selfish mutually destructive behavior For those in the field who wish to partake in this exchange of knowledge and as a gesture of support for their Soviet counterparts the reading of this book provides the first step

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

Large-Scale Scientific Computing Svetozar D. Margenov, Jerzy Wasniewski, Plamen Yalamov, 2003-06-30 This book constitutes the thoroughly refereed post proceedings of the Third International Conference on Large Scale Scientific Computing LSSC 2001 held in Sozopol Bulgaria in June 2001 The 7 invited full papers and 45 selected revised papers were carefully reviewed for inclusion in the book The papers are organized in topical sections on robust preconditioning algorithms Monte Carlo methods advanced programming environments for scientific computing large scale computations in air pollution modeling large scale computations in mechanical engineering and numerical methods for incompressible flow

Springer Handbook of Semiconductor Devices Massimo Rudan, Rossella Brunetti, Susanna

Reggiani, 2022-11-10 This Springer Handbook comprehensively covers the topic of semiconductor devices embracing all aspects from theoretical background to fabrication modeling and applications. Nearly 100 leading scientists from industry and academia were selected to write the handbook's chapters, which were conceived for professionals and practitioners: material scientists, physicists, and electrical engineers working at universities, industrial R D, and manufacturers. Starting from the description of the relevant technological aspects and fabrication steps, the handbook proceeds with a section fully devoted to the main conventional semiconductor devices like e.g. bipolar transistors and MOS capacitors and transistors used in the production of the standard integrated circuits and the corresponding physical models. In the subsequent chapters, the scaling issues of the semiconductor device technology are addressed, followed by the description of novel concept-based semiconductor devices. The last section illustrates the numerical simulation methods ranging from the fabrication processes to the device performances. Each chapter is self-contained and refers to related topics treated in other chapters when necessary, so that the reader interested in a specific subject can easily identify a personal reading path through the vast contents of the handbook.

Semiconductor Radiation Detectors Gerhard Lutz, 2007-06-15 Starting from basic principles, this book describes the rapidly growing field of modern semiconductor detectors used for energy and position measurement of radiation. The author, whose own contributions to these developments have been significant, explains the working principles of semiconductor radiation detectors in an intuitive way. Broad coverage is also given to electronic signal readout and to the subject of radiation damage.

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