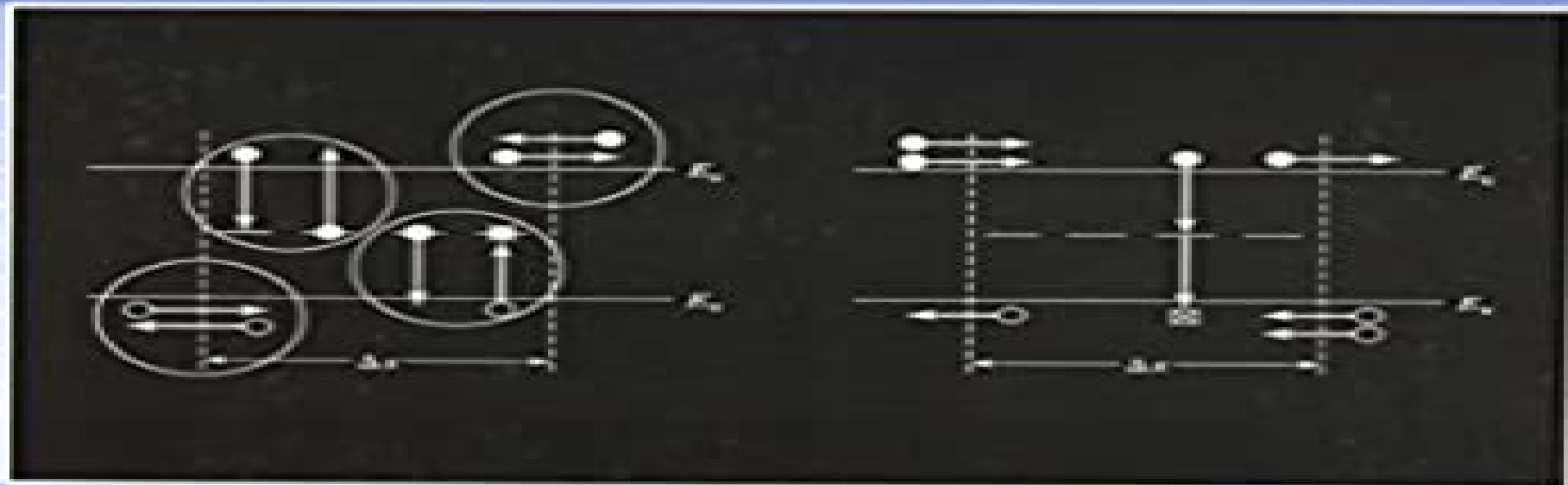


VOLUME VI

# ADVANCED SEMICONDUCTOR FUNDAMENTALS

SECOND EDITION

ROBERT F. PIERRET



**Modular Series on Solid State Devices**  
*Gerold W. Neudeck • Robert F. Pierret, Series Editors*

# Advanced Semiconductor Fundamentals By A

**Mark Lundstrom, Jing Guo**



## **Advanced Semiconductor Fundamentals By A:**

**Advanced Semiconductor Fundamentals** Robert F. Pierret, 2003 Advanced Semiconductor Fundamentals Second Edition by Robert F Pierret is an advanced level presentation of the underlying functional formalism routinely used in describing the operational behavior of solid state devices The second edition provides an update of the topic presentation semiconductor parametric information and relevant references throughout the volume There is also a 50% increase in the end of chapter problems Given the success of the first edition the second edition retains the same overall material coverage and a pedagogical approach in introducing necessary concepts models and formalism

**Advanced Semiconductor Fundamentals** Pierret, 2002-12      **Semiconductor Fundamentals** Robert F. Pierret, 1983      *Introductory Quantum Mechanics for Semiconductor Nanotechnology* Dae Mann Kim, 2010-04-26 Dieses von der Korean Nanotechnology Research Society als Lehrbuch empfohlene Werk hebt sich von anderen Einf hrungen in die Quantenmechanik ab Stark anwendungsbezogen bespricht der lehrerfahrene Autor quantenmechanische Aspekte der Halbleiter Nanotechnologie die er durch viele Mainstream Applikationen illustriert Unter anderem erl utert er Photodetektoren Laserdioden Solarzellen Transistoren und Schottky Kontakte Die mathematischen Herleitungen sind auf ein Minimum beschr nkt daf r legt der Autor besonderen Wert auf den technischen Background und nicht zuletzt auf eine st ndige Motivation seiner Leser Mit zahlreichenbungsaufgaben L sungen L sungsheft f r Dozenten und Pr sentationsmaterial

*Modular Series on Solid State Devices: Advanced semiconductor fundamentals* Robert F. Pierret, 1983      *MOSFET Models for VLSI Circuit Simulation* Narain D. Arora, 2012-12-06 Metal Oxide Semiconductor MOS transistors are the basic building block of MOS integrated circuits I C Very Large Scale Integrated VLSI circuits using MOS technology have emerged as the dominant technology in the semiconductor industry Over the past decade the complexity of MOS IC s has increased at an astonishing rate This is realized mainly through the reduction of MOS transistor dimensions in addition to the improvements in processing Today VLSI circuits with over 3 million transistors on a chip with effective or electrical channel lengths of 0.5 microns are in volume production Designing such complex chips is virtually impossible without simulation tools which help to predict circuit behavior before actual circuits are fabricated However the utility of simulators as a tool for the design and analysis of circuits depends on the adequacy of the device models used in the simulator This problem is further aggravated by the technology trend towards smaller and smaller device dimensions which increases the complexity of the models There is extensive literature available on modeling these short channel devices However there is a lot of confusion too Often it is not clear what model to use and which model parameter values are important and how to determine them After working over 15 years in the field of semiconductor device modeling I have felt the need for a book which can fill the gap between the theory and the practice of MOS transistor modeling This book is an attempt in that direction

*Handbook of Photovoltaic Science and Engineering* Antonio Luque, Steven Hegedus, 2011-03-29 The most comprehensive authoritative and widely cited reference on

photovoltaic solar energy Fully revised and updated the Handbook of Photovoltaic Science and Engineering Second Edition incorporates the substantial technological advances and research developments in photovoltaics since its previous release All topics relating to the photovoltaic PV industry are discussed with contributions by distinguished international experts in the field Significant new coverage includes three completely new chapters and six chapters with new authors device structures processing and manufacturing options for the three major thin film PV technologies high performance approaches for multijunction concentrator and space applications new types of organic polymer and dye sensitized solar cells economic analysis of various policy options to stimulate PV growth including effect of public and private investment Detailed treatment covers scientific basis of the photovoltaic effect and solar cell operation the production of solar silicon and of silicon based solar cells and modules how choice of semiconductor materials and their production influence costs and performance making measurements on solar cells and modules and how to relate results under standardised test conditions to real outdoor performance photovoltaic system installation and operation of components such as inverters and batteries architectural applications of building integrated PV Each chapter is structured to be partially accessible to beginners while providing detailed information of the physics and technology for experts Encompassing a review of past work and the fundamentals in solar electric science this is a leading reference and invaluable resource for all practitioners consultants researchers and students in the PV industry

Conversion of Water and CO<sub>2</sub> to Fuels using Solar Energy Oomman K. Varghese, Flavio L. Souza, 2024-03-26 Conversion of Water and CO<sub>2</sub> to Fuels using Solar Energy Comprehensive Resource for Understanding the Emerging Solar Technologies for Hydrogen Generation via Water Splitting and Carbon based Fuel Production via CO<sub>2</sub> Recycling Fossil fuel burning is the primary source of carbon in the atmosphere The realization that such burning can harm the life on our planet has led to a surge in research activities that focus on the development of alternative strategies for energy conversion Fuel generation using solar energy is one of the most promising approaches that has received widespread attention The fuels produced using sunlight are commonly referred to as solar fuels This book provides researchers interested in solar fuel generation a comprehensive understanding of the emerging solar technologies for hydrogen generation via water splitting and carbon based fuel production via CO<sub>2</sub> recycling The book presents the fundamental science technologies techno economic analysis and most importantly the materials that are being explored to establish artificial methods of fuel production using solar energy For the rapid advancement of the field it is necessary for researchers particularly for those who are new to the field to have clear knowledge of various materials studied so far and their performance For this reason almost half of the book is dedicated to the discussions on materials and properties Key topics discussed in the book include Photocatalytic photoelectrochemical processes that use semiconductor photocatalysts including both ceramic and non ceramic materials Photovoltaic assisted electrochemical processes Solar thermochemical processes Molecular photosynthesis Researchers and professionals in the fields of energy and materials and closely related science and

engineering disciplines could use this book to acquire clear insights on both mainstream solar fuel technologies and those in the developmental stages     Introduction to Organic Electronic and Optoelectronic Materials and Devices Sam-Shajing Sun, Larry R. Dalton, 2016-10-03 This book covers the combined subjects of organic electronic and optoelectronic materials devices It is designed for classroom instruction at the senior college level Highlighting emerging organic and polymeric optoelectronic materials and devices it presents the fundamentals principle mechanisms representative examples and key data     **Introductory Quantum Mechanics for Applied Nanotechnology** Dae Mann Kim, 2016-05-04 This introductory textbook covers fundamental quantum mechanics from an application perspective considering optoelectronic devices biological sensors and molecular imagers as well as solar cells and field effect transistors The book provides a brief review of classical and statistical mechanics and electromagnetism and then turns to the quantum treatment of atoms molecules and chemical bonds Aiming at senior undergraduate and graduate students in nanotechnology related areas like physics materials science and engineering the book could be used at schools that offer interdisciplinary but focused training for future workers in the semiconductor industry and for the increasing number of related nanotechnology firms and even practicing people could use it when they need to learn related concepts The author is Professor Dae Mann Kim from the Korea Institute for Advanced Study who has been teaching Quantum Mechanics to engineering material science and physics students for over 25 years in USA and Asia     *Rapid Thermal and Other Short-time Processing Technologies II* Dim-Lee Kwong, Electrochemical Society. Electronics Division, Electrochemical Society. Dielectric Science and Technology Division, Electrochemical Society. High Temperature Materials Divisions, 2001 Electronics Dielectric Science and Technology and High Temperature Materials Divisions     Nanoscale Transistors Mark Lundstrom, Jing Guo, 2006-06-18 Silicon technology continues to progress but device scaling is rapidly taking the metal oxide semiconductor field effect transistor MOSFET to its limit When MOS technology was developed in the 1960 s channel lengths were about 10 micrometers but researchers are now building transistors with channel lengths of less than 10 nanometers New kinds of transistors and other devices are also being explored Nanoscale MOSFET engineering continues however to be dominated by concepts and approaches originally developed to treat microscale devices To push MOSFETs to their limits and to explore devices that may complement or even supplant them a clear understanding of device physics at the nano molecular scale will be essential Our objective is to provide engineers and scientists with that understandin not only of nano devices but also of the considerations that ultimately determine system performance It is likely that nanoelectronics will involve much more than making smaller and different transistors but nanoscale transistors provides a specific clear context in which to address some broad issues and is therefore our focus in this monograph     *Parameter-Centric Scaled FET Devices* Nabil Shovon Ashraf, 2025-03-26 Parameters that determine the performance of silicon based Field Effect Transistors FET devices in the presence of degenerate doping often are not modeled properly and so require precise analysis to improve modeling accuracy The book is

focused on the extraction of parameters for silicon based FET models that critically determine the FET performance at room temperature as well as at very low temperatures Emphasize is put on analysis that is based on the device physics especially at low cryogenic temperatures Performance of gate all around GAA nanowire FETs and stacked nanosheet complementary FETs C FET are also discussed

**Electromagnetic Simulation Using the FDTD Method** Dennis M. Sullivan, 2013-05-17 A straightforward easy to read introduction to the finite difference time domain FDTD method Finite difference time domain FDTD is one of the primary computational electrodynamics modeling techniques available Since it is a time domain method FDTD solutions can cover a wide frequency range with a single simulation run and treat nonlinear material properties in a natural way Written in a tutorial fashion starting with the simplest programs and guiding the reader up from one dimensional to the more complex three dimensional programs this book provides a simple yet comprehensive introduction to the most widely used method for electromagnetic simulation This fully updated edition presents many new applications including the FDTD method being used in the design and analysis of highly resonant radio frequency RF coils often used for MRI Each chapter contains a concise explanation of an essential concept and instruction on its implementation into computer code Projects that increase in complexity are included ranging from simulations in free space to propagation in dispersive media Additionally the text offers downloadable MATLAB and C programming languages from the book support site <http://booksupport.wiley.com> Simple to read and classroom tested *Electromagnetic Simulation Using the FDTD Method* is a useful reference for practicing engineers as well as undergraduate and graduate engineering students

*Nano-Semiconductors* Krzysztof Iniewski, 2018-09-03 With contributions from top international experts from both industry and academia *Nano Semiconductors Devices and Technology* is a must read for anyone with a serious interest in future nanofabrication technologies Taking into account the semiconductor industry's transition from standard CMOS silicon to novel device structures including carbon nanotubes CNT graphene quantum dots and III V materials this book addresses the state of the art in nano devices for electronics It provides an all encompassing one stop resource on the materials and device structures involved in the evolution from micro to nanoelectronics The book is divided into three parts that address Semiconductor materials i.e. carbon nanotubes memristors and spin organic devices Silicon devices and technology i.e. BiCMOS SOI various 3D integration and RAM technologies and solar cells Compound semiconductor devices and technology This reference explores the groundbreaking opportunities in emerging materials that will take system performance beyond the capabilities of traditional CMOS based microelectronics Contributors cover topics ranging from electrical propagation on CNT to GaN HEMTs technology and applications Approaching the trillion dollar nanotech industry from the perspective of real market needs and the repercussions of technological barriers this resource provides vital information about elemental device architecture alternatives that will lead to massive strides in future development

*Vacuum Nanoelectronic Devices* Anatoliy Evtukh, Hans Hartnagel, Oktay Yilmazoglu, Hidenori Mimura, Dimitris Pavlidis, 2016-03-16 Introducing up to date coverage of

research in electron field emission from nanostructures Vacuum Nanoelectronic Devices outlines the physics of quantum nanostructures basic principles of electron field emission and vacuum nanoelectronic devices operation and offers as insight state of the art and future researches and developments This book also evaluates the results of research and development of novel quantum electron sources that will determine the future development of vacuum nanoelectronics Further to this the influence of quantum mechanical effects on high frequency vacuum nanoelectronic devices is also assessed Key features In depth description and analysis of the fundamentals of Quantum Electron effects in novel electron sources Comprehensive and up to date summary of the physics and technologies for THz sources for students of physical and engineering specialties and electronics engineers Unique coverage of quantum physical results for electron field emission and novel electron sources with quantum effects relevant for many applications such as electron microscopy electron lithography imaging and communication systems and signal processing New approaches for realization of electron sources with required and optimal parameters in electronic devices such as vacuum micro and nanoelectronics This is an essential reference for researchers working in terahertz technology wanting to expand their knowledge of electron beam generation in vacuum and electron source quantum concepts It is also valuable to advanced students in electronics engineering and physics who want to deepen their understanding of this topic Ultimately the progress of the quantum nanostructure theory and technology will promote the progress and development of electron sources as main part of vacuum macro micro and nanoelectronics

Sixteenth European Photovoltaic Solar Energy Conference H. Scheer, B. McNelis, W. Palz, H.A. Ossenbrink, P. Helm, 2020-11-25 The European Photovoltaic Solar Energy Conferences are dedicated to accelerating the impetus towards sustainable development of global PV markets The 16th in the series held in Glasgow UK brought together more than 1500 delegates from 72 countries and provided an important and vital forum for information exchange in the field The Conference Proceedings place on record a new phase of market development and scientific endeavour in the PV industry representing current and innovative thinking in all aspects of the science technology markets and business of photovoltaics In three volumes the Proceedings present some 790 papers selected for presentation by the scientific review committee of the 16th European Photovoltaic Solar Energy Conference The comprehensive range of topics covered comprise Fundamentals Novel Devices and New Materials Thin Film Cells and Technologies Space Cells and Systems Crystalline Silicon Solar Cells and Technologies PV Integration in Buildings PV Modules and Components of PV Systems Implementation Strategies National Programs and Financing Schemes Market Deployment in Developing Countries These proceedings are an essential reference for all involved in the global PV industry scientists researchers technologists and those with an interest in global market trends The conference was organised by WIP Renewable Energies Munich Germany

**Microwave Semiconductor Devices** Sigfrid Yngvesson, 2012-12-06 We have reached the double conclusion that invention is choice that this choice is imperatively governed by the sense of scientific beauty Hadamard 1945 Princeton University Press by permission The great majority of all

sources and amplifiers of microwave energy and all devices for receiving or detecting microwaves use a semiconductor active element The development of microwave semiconductor devices described in this book has proceeded from the simpler two terminal devices such as GUNN or IMPATT devices which originated in the 1960s to the sophisticated monolithic circuit MESFET three terminal active elements of the 1980s and 1990s The microwave field has experienced a renaissance in electrical engineering departments in the last few years and much of this growth has been associated with microwave semiconductor devices The University of Massachusetts has recently developed a well recognized program in microwave engineering Much of the momentum for this program has been provided by interaction with industrial companies and the influx of a large number of industry supported students This program had a need for a course in microwave semiconductor devices which covered the physical aspects as well as the aspects of interest to the engineer who incorporates such devices in his designs It was also felt that it would be important to introduce the most recently developed devices HFETs HBTs and other advanced devices as early as possible

**Electronic, Magnetic, and Optical Materials** Pradeep Fulay, Jung-Kun Lee, 2016-04-19 More than ever before technological developments are blurring the boundaries shared by various areas of engineering such as electrical chemical mechanical and biomedical materials science physics and chemistry In response to this increased interdisciplinarity and interdependency of different engineering and science fields Electronic Magnetic and Optical Materials takes a necessarily critical all encompassing approach to introducing the fundamentals of electronic magnetic and optical properties of materials to students of science and engineering Weaving together science and engineering aspects this book maintains a careful balance between fundamentals i e underlying physics related concepts and technological aspects e g manufacturing of devices materials processing etc to cover applications for a variety of fields including Nanoscience Electromagnetics Semiconductors Optoelectronics Fiber optics Microelectronic circuit design Photovoltaics Dielectric ceramics Ferroelectrics piezoelectrics and pyroelectrics Magnetic materials Building upon his twenty years of experience as a professor Fulay integrates engineering concepts with technological aspects of materials used in the electronics magnetics and photonics industries This introductory book concentrates on fundamental topics and discusses applications to numerous real world technological examples from computers to credit cards to optic fibers that will appeal to readers at any level of understanding Gain the knowledge to understand how electronic optical and magnetic materials and devices work and how novel devices can be made that can compete with or enhance silicon based electronics Where most books on the subject are geared toward specialists e g those working in semiconductors this long overdue text is a more wide ranging overview that offers insight into the steadily fading distinction between devices and materials It is well suited to the needs of senior level undergraduate and first year graduate students or anyone working in industry regardless of their background or level of experience

Understanding Modern Transistors and Diodes David L. Pulfrey, 2010-01-28 Written in a concise easy to read style this text for senior undergraduate and graduate courses covers all key topics thoroughly It is also



a useful self study guide for practising engineers who need a complete up to date review of the subject Key features Rigorous theoretical treatment combined with practical detail A theoretical framework built up systematically from the Schrödinger Wave Equation and the Boltzmann Transport Equation Covers MOSFETs HBTs and HJFETs Uses the PSP model for MOSFETs Rigorous treatment of device capacitance Describes the operation of modern high performance transistors and diodes Evaluates the suitability of various transistor types and diodes for specific modern applications Covers solar cells and LEDs and their potential impact on energy generation and reduction Includes a chapter on nanotransistors to prepare students and professionals for the future Provides results of detailed numerical simulations to compare with analytical solutions End of chapter exercises Online lecture slides for undergraduate and graduate courses

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