

# **SOLID STATE DEVICES**

## **A QUANTUM PHYSICS APPROACH**

**Donard de Cogan**



**Springer-Verlag New York Inc.**

# Solid State Devices A Quantum Physics Approach

**Liying Dong**



## **Solid State Devices A Quantum Physics Approach:**

**Solid State Devices** Donard De Cogan, 1987      High Speed Semiconductor Physics. Theoretical Approaches and Device Physics Cliff Orori Mosiori, Walter Kamande Njoroge, 2015-07 Solid state physics is a fascinating sub genre of condensed matter physics though some graduate students consider it a very boring and tedious subject area in Physics and others even call it a squalid state Topics covered in this book are built on standard solid state physics references available in most online libraries or in other books on solid state physics The complexity of high speed semiconductor physics and related devices arose from condensed solid state matter The content covered in this book gives a deep coverage on some topics or sections that may be covered only superficially in other literature Therefore these topics are likely to differ a great deal from what is deemed important elsewhere in other books or available literature There are many extremely good books on solid state physics and condensed matter physics but very few of these books are restricted to high speed semiconductor physics though Chapter one covers the general semiconductor qualities that make high speed semiconductor devices effect and includes the theory of crystals diffusion and its mechanisms while chapter two covers solid state materials material processing for high speed semiconductor devices and an introduction to quantum theory for materials in relation to density of states of the radiation for a black body and its radiation properties Chapter three discuss high speed semiconductor energy band theory energy bands in general solid semiconductor materials the Debye model the Einstein model the Debye model and semiconductor transport carriers in 3D semiconductors while chapter four discuss effect of external force on current flow based on the concept of holes valence band and lattice scattering in high speed devices Chapter five briefly describes solid state thermoelectric fundamentals thermoelectric material and thermoelectric theory of solids in lattice and phonons while chapter six scattering in high field effect in semiconductors in inter valley electron scattering and the associated Fermi Dirac statistics and Maxwell Boltzmann approximation on their carrier concentration variation with energy in extrinsic doping chapter seven covers p n junction diodes varactor diode pin diode Schottky diode and their transient response of diode in multi valley semiconductors Chapter eight discusses high speed metal semiconductor field effect transistors      Physics of Nanostructured Solid State Devices Supriyo Bandyopadhyay, 2012-02-17 Physics of Nanostructured Solid State Devices introduces readers to theories and concepts such as semi classical and quantum mechanical descriptions of electron transport methods for calculations of band structures in solids with applications in calculation of optical constants and other advanced concepts The information presented here will equip readers with the necessary tools to carry out cutting edge research in modern solid state nanodevices      Electron and Ion Microscopy and Microanalysis Lawrence E Murr, 2018-10-08 The publication date of the first edition is not stated but the new edition is apparently considerably revised and expanded It was written to serve as a multi purpose text at the senior or graduate level and as a reference for the practicing scientist or engineer Readers should have a math backgr      **A Short History of Circuits and Systems** Franco Maloberti, Anthony C.

Davies, Yongfu Li, Fidel Makatia, Hanho Lee, Fakhrul Zaman Rokhani, 2024-09-27 After an overview of major scientific discoveries of the 18th and 19th centuries which created electrical science as we know and understand it and led to its useful applications in energy conversion transmission manufacturing industry and communications this Circuits and Systems History book fills a gap in published literature by providing a record of the many outstanding scientists mathematicians and engineers who laid the foundations of Circuit Theory and Filter Design from the mid 20th Century Additionally the book records the history of the IEEE Circuits and Systems Society from its origins as the small Circuit Theory Group of the Institute of Radio Engineers IRE which merged with the American Institute of Electrical Engineers AIEE to form IEEE in 1963 to the large and broad coverage worldwide IEEE Society which it is today This second edition commemorating the 75th anniversary of the Circuits and Systems Society builds upon the first edition's success by expanding the scope of specific chapters introducing new topics of relevance and integrating feedback from readers and experts in the field reflecting the evolving landscape of Circuits and Systems alongside the evolution of the professional society Many authors from many countries contributed to the creation of this book working to a very tight time schedule The result is a substantial contribution to their enthusiasm and expertise which it is hoped readers will find both interesting and useful It is certain that in such a book omission will be found and in the space and time available much valuable material had to be left out It is hoped that this book will stimulate an interest in the marvelous heritage and contributions of the many outstanding people who worked in the Circuits and Systems area

Introduction to Digital Filters Trevor J. Terrell, 1988-07-28 In this revised and updated edition particular attention has been paid to the practical implementations of digital filters covering such topics as microprocessors based filters single chip DSP devices computer processing of 2 dimensional signals and VLSI signal processing

**Solid State Physics** John J. Quinn, Kyung-Soo Yi, 2009-09-18 Intended for a two semester advanced undergraduate or graduate course in Solid State Physics this treatment offers modern coverage of the theory and related experiments including the group theoretical approach to band structures Moessbauer recoil free fraction semi classical electron theory magnetoconductivity electron self energy and Landau theory of Fermi liquid and both quantum and fractional quantum Hall effects Integrated throughout are developments from the newest semiconductor devices e g space charge layers quantum wells and superlattices The first half includes all material usually covered in the introductory course but in greater depth than most introductory textbooks The second half includes most of the important developments in solid state researches of the past half century addressing e g optical and electronic properties such as collective bulk and surface modes and spectral function of a quasiparticle which is a basic concept for understanding LEED intensities X ray fine structure spectroscopy and photoemission So both the fundamental principles and most recent advances in solid state physics are explained in a class tested tutorial style with end of chapter exercises for review and reinforcement of key concepts and calculations

**Solid State Devices**, 1983      **Principles of Growth and Processing of Semiconductors** Subhash

Mahajan, K. S. SreeHarsha, 1999 Developing the essential elements of semiconductor behaviour this text goes on to provide a conceptual framework and introduction to microelectronics Topics include semiconductors devices defects evaluation bulk growth epitaxial growth oxidation diffusion and ion implantation Comprehensive Hard Materials Daniele Mari, Luis Miguel, Christoph E. Nebel, 2014-02-01 Comprehensive Hard Materials Three Volume Set deals with the production uses and properties of the carbides nitrides and borides of these metals and those of titanium as well as tools of ceramics the superhard boron nitrides and diamond and related compounds Articles include the technologies of powder production including their precursor materials milling granulation cold and hot compaction sintering hot isostatic pressing hot pressing injection moulding as well as on the coating technologies for refractory metals hard metals and hard materials The characterization testing quality assurance and applications are also covered Comprehensive Hard Materials provides meaningful insights on materials at the leading edge of technology It aids continued research and development of these materials and as such it is a critical information resource to academics and industry professionals facing the technological challenges of the future Hard materials operate at the leading edge of technology and continued research and development of such materials is critical to meet the technological challenges of the future Users of this work can improve their knowledge of basic principles and gain a better understanding of process structure property relationships With the convergence of nanotechnology coating techniques and functionally graded materials to the cognitive science of cemented carbides cermets advanced ceramics super hard materials and composites it is evident that the full potential of this class of materials is far from exhausted This work unites these important areas of research and will provide useful insights to users through its extensive cross referencing and thematic presentation To link academic to industrial usage of hard materials and vice versa this work deals with the production uses and properties of the carbides nitrides and borides of these metals and those of titanium as well as tools of ceramics the superhard boron nitrides and diamond and related compounds **Air**

**Force Research Resumés , Computational Electromagnetics—Retrospective and Outlook** Iftikhar

Ahmed, Zhizhang (David) Chen, 2014-08-27 The book will cover the past present and future developments of field theory and computational electromagnetics The first two chapters will give an overview of the historical developments and the present the state of the art in computational electromagnetics These two chapters will set the stage for discussing recent progress new developments challenges trends and major directions in computational electromagnetics with three main emphases a Modeling of ever larger structures with multi scale dimensions and multi level descriptions behavioral circuit network and field levels and transient behaviours b Inclusions of physical effects other than electromagnetic quantum effects thermal effects mechanical effects and nano scale features c New developments in available computer hardware programming paradigms MPI Open MP CUDA and Open CL and the associated new modeling approaches These are the current emerging topics in the area of computational electromagnetics and may provide readers a comprehensive overview of future trends and

directions in the area The book is written for students research scientists professors design engineers and consultants who engaged in the fields of design analysis and research of the emerging technologies related to computational electromagnetics RF microwave optimization new numerical methods as well as accelerator simulator dispersive materials nano antennas nano waveguide nano electronics terahertz applications bio medical and material sciences The book may also be used for those involved in commercializing electromagnetic and related emerging technologies sensors and the semiconductor industry The book can be used as a reference book for graduates and post graduates It can also be used as a text book for workshops and continuing education for researchers and design engineers      Micro-nanoelectronics Devices Christian

Gontrand,2018-03-20 Micro nanoelectronics Devices Modeling of Diffusion and Operation Processes concentrates on the modeling of diffusion processes and the behavior of modern integrated components from material to architecture It goes through the process the device and the circuit regarding today s widely discussed nano electronics both from an industry perspective and that of public entities Seeks to provide the core of modeling in micro nano electronics Introduces the equations underlying the modelizations and ultimately the related simulations Proposes what modifications should be made with respect to modeling      Advanced Materials Innovation Sanford L. Moskowitz,2016-09-01 Through detailed case studies of the most important advanced material creations of the latter 20th and early 21st century the author explores the role of the field of advanced materials in the technological and economic activity today with implications to the innovation process in general A comprehensive study that encompasses the three major categories of advanced material technologies i e Structural Materials metals and polymers Functional Materials transistor microchip and semiconductor laser and Hybrid and New Forms of Matter liquid crystals and nanomaterials Extensive use of primary sources including unpublished interviews with the scientists engineers and entrepreneurs on the front lines of advanced materials creation Original approach to case study narrative emphasizing interaction between the advanced material process perceived risk and directing and accelerating breakthrough technology      *Fiftieth Anniversary, 1912-1962* Institute of Radio Engineers,1962      **Quantum Information**

**and Computation for Chemistry, Volume 154** Sabre Kais,2014-01-31 Examines the intersection of quantum information and chemical physics The Advances in Chemical Physics series is dedicated to reviewing new and emerging topics as well as the latest developments in traditional areas of study in the field of chemical physics Each volume features detailed comprehensive analyses coupled with individual points of view that integrate the many disciplines of science that are needed for a full understanding of chemical physics This volume of the series explores the latest research findings applications and new research paths from the quantum information science community It examines topics in quantum computation and quantum information that are related to or intersect with key topics in chemical physics The reviews address both what chemistry can contribute to quantum information and what quantum information can contribute to the study of chemical systems surveying both theoretical and experimental quantum information research within the field of chemical physics With

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*Numerical Methods in Electromagnetics* W.H.A. SCHILDERS, E.J.W. TER MATEN, 2005-04-04 This special volume provides a broad overview and insight in the way numerical methods are being used to solve the wide variety of problems in the electronics industry Furthermore its aim is to give researchers from other fields of application the opportunity to benefit from the results which have been obtained in the electronics industry Complete survey of numerical methods used in the electronic industry Each chapter is selfcontained Presents state of the art applications and methods Internationally recognised authors

*Scientific and Technical Aerospace Reports* , 1995

**Research Interests of the Air Force Office of Scientific Research** , 1991

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