

BELL LABORATORIES SERIES

ELECTRONS AND HOLES IN SEMICONDUCTORS

WITH APPLICATIONS TO TRANSISTOR ELECTRONICS

WILLIAM SHOCKLEY, Ph. D.

MEMBER OF THE TECHNICAL STAFF BELL TELEPHONE LABORATORIES

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A comprehensive introduction to the important new field of transistor electronics—from basic principles to application. Written in the clearest and most logical terms—assuming no previous detailed knowledge of quantum theory or wave mechanics—as a guide for electrical engineers, physicists, designers, and students—

William Shockley

Electrons and Holes in Semiconductors William Shockley, 1950 Elektronischer Bauteil Halbleiter **Electrons and Holes in Semiconductors** William Shockley,1950 Electrons and Holes in Semiconductors William Shockley, 1966 **Electron and Holes in Semiconductors** William Shockley,1950 *Biographies of Scientists for Sci-tech Libraries* Tony Stankus, 1991 Contains material that should prove helpful to sci tech librarians in furthering their understanding and appreciation of science as a broadly based and creative experience and how to use these titles to share this understanding "The" Conceptual Completion and the Extensions of Quantum Mechanics 1932 - 1941; with students and other readers Epiloque: Aspects of the Further Development of Quantum Theory 1942 - 1999 Jagdish Mehra, Helmut Rechenberg, 2001-06-29 Quantum Theory together with the principles of special and general relativity constitute a scientific revolution that has profoundly influenced the way in which we think about the universe and the fundamental forces that govern it The Historical Development of Quantum Theory is a definitive historical study of that scientific work and the human struggles that accompanied it from the beginning Drawing upon such materials as the resources of the Archives for the History of Quantum Physics the Niels Bohr Archives and the archives and scientific correspondence of the principal quantum physicists as well as Jagdish Mehra's personal discussions over many years with most of the architects of quantum theory the authors have written a rigorous scientific history of quantum theory in a deeply human context This multivolume work presents a rich account of an intellectual triumph a unique analysis of the creative scientific process The Historical Development of Quantum Theory is science history and biography all wrapped in the story of a great human enterprise Its lessons will be an aid to those working in the sciences and humanities alike Comments by distinguished physicists on The Historical Development of Quantum Theory the most definitive work undertaken by anyone on this vast and most important development in the history of physics Jagdish Mehra trained in theoretical physics under Pauli Heisenberg and Dirac pursued the vision of his youth to write about the historical and conceptual development of quantum theory in the 20th century This series of books on the HDQT has thus become the most authentic and permanent source of our knowledge of how quantum theory its extensions and applications developed My heartfelt congratulations Hans A Bethe Nobel Laureate A thrilling and magnificent achievement Subrahmanyan Chandrasekhar FRS Nobel Laureate capture s precisely accurately and thoroughly the very essence and all the fundamental details of the theory and that is a remarkable achievement I have greatly enjoyed reading these books and learned so many new things from them This series of books will remain a permanent source of knowledge about the creation and development of quantum theory Congratulations Paul A Dirac FRS Nobel Laureate The wealth and accuracy of detail in The Historical Development of Quantum Theory are breathtaking Richard P Feynman Nobel Laureate Advanced Physics of Electron Transport in Semiconductors and Nanostructures Massimo V. Fischetti, William G. Vandenberghe, 2016-05-20 This textbook is aimed at second year graduate students in Physics Electrical

Engineering or Materials Science It presents a rigorous introduction to electronic transport in solids especially at the nanometer scale Understanding electronic transport in solids requires some basic knowledge of Hamiltonian Classical Mechanics Quantum Mechanics Condensed Matter Theory and Statistical Mechanics Hence this book discusses those sub topics which are required to deal with electronic transport in a single self contained course This will be useful for students who intend to work in academia or the nano micro electronics industry Further topics covered include the theory of energy bands in crystals of second quantization and elementary excitations in solids of the dielectric properties of semiconductors with an emphasis on dielectric screening and coupled interfacial modes of electron scattering with phonons plasmons electrons and photons of the derivation of transport equations in semiconductors and semiconductor nanostructures somewhat at the quantum level but mainly at the semi classical level The text presents examples relevant to current research thus not only about Si but also about III V compound semiconductors nanowires graphene and graphene nanoribbons In particular the text gives major emphasis to plane wave methods applied to the electronic structure of solids both DFT and empirical pseudopotentials always paying attention to their effects on electronic transport and its numerical treatment The core of the text is electronic transport with ample discussions of the transport equations derived both in the quantum picture the Liouville von Neumann equation and semi classically the Boltzmann transport equation BTE An advanced chapter Chapter 18 is strictly related to the tricky transition from the time reversible Liouville von Neumann equation to the time irreversible Green's functions to the density matrix formalism and classically to the Boltzmann transport equation Finally several methods for solving the BTE are also reviewed including the method of moments iterative methods direct matrix inversion Cellular Automata and Monte Carlo Four appendices complete the text Recent Advances in Nanomaterials Zishan Husain Khan, Mark Jackson, Numan A. Salah, 2023-11-14 This volume comprises the select peer reviewed proceedings of the International Conference on Nanotechnology Opportunities and Challenges ICNOC22 It aims to provide a comprehensive and broad spectrum picture of the state of the art research and development in nanomaterials nanocomposites nanobiosensors nanochemistry renewable energy nanochemistry in medicine batteries and supercapacitors targeted cellular therapies among others This volume will be useful for researchers and professionals working in nanotechnology and allied fields Nanoscale Electronic Devices and Their Applications Khurshed Ahmad Shah, Faroog Ahmad Khanday, 2020-08-03 Nanoscale Electronic Devices and Their Applications helps readers acquire a thorough understanding of the fundamentals of solids at the nanoscale level in addition to their applications including operation and properties of recent nanoscale devices This book includes seven chapters that give an overview of electrons in solids carbon nanotube devices and their applications doping techniques construction and operational details of channel engineered MOSFETs and spintronic devices and their applications Structural and operational features of phase change memory PCM memristor and resistive random access memory ReRAM are also discussed In addition some applications of

these phase change devices to logic designs have been presented Aimed at senior undergraduate students in electrical engineering micro electronics engineering physics and device physics this book Covers a wide area of nanoscale devices while explaining the fundamental physics in these devices Reviews information on CNT two and three probe devices spintronic devices CNT interconnects CNT memories and NDR in CNT FETs Discusses spin controlled devices and their applications multi material devices and gates in addition to phase change devices Includes rigorous mathematical derivations of the semiconductor physics Illustrates major concepts thorough discussions and various diagrams Transistors, A Comprehensive Overview Pouya Valizadeh, 2016-02-01 This book discusses modern day Metal Oxide Semiconductor Field Effect Transistors MOSFETs and future trends of transistor devices This book provides an overview of Field Effect Transistors FETs by discussing the basic principles of FETs and exploring the latest technological developments in the field It covers and connects a wide spectrum of topics related to semiconductor device physics physics of transistors and advanced transistor concepts This book contains six chapters Chapter 1 discusses electronic materials and charge Chapter 2 examines junctions discusses contacts under thermal equilibrium metal semiconductor contacts and metal insulator semiconductor systems Chapter 3 covers traditional planar Metal Oxide Semiconductor Field Effect Transistors MOSFETs Chapter 4 describes scaling driving technological variations and novel dimensions of MOSFETs Chapter 5 analyzes Heterojunction Field Effect Transistors FETs and also discusses the challenges and rewards of heteroepitaxy Finally Chapter 6 examines FETs at molecular scales Links the discussion of contemporary transistor devices to physical processes Material has been class tested in undergraduate and graduate courses on the design of integrated circuit components taught by the author Contains examples and end of chapter problems Field Effect Transistors A Comprehensive Overview From Basic Concepts to Novel Technologies is a reference for senior undergraduate graduate students and professional engineers needing insight into physics of operation of modern FETs Pouya Valizadeh is Associate Professor in the Department of Electrical and Computer Engineering at Concordia University in Quebec Canada He received B S and M S degrees with honors from the University of Tehran and Ph D degree from The University of Michigan Ann Arbor all in Electrical Engineering in 1997 1999 and 2005 respectively Over the past decade Dr Valizadeh has taught numerous sections of five different courses covering topics such as semiconductor process technology semiconductor materials and their properties advanced solid state devices transistor design for modern CMOS technology and high speed transistors Microwave Transmitter Design Andrei Grebennikov, 2011-09-19 RF and Microwave Transmitter Design is unique in its coverage of both historical transmitter design and cutting edge technologies. This text explores the results of well known and new theoretical analyses while informing readers of modern radio transmitters practical designs and their components Jam packed with information this book broadcasts and streamlines the author's considerable experience in RF and microwave The Physics of Solids J. B. Ketterson, 2016-10-06 This comprehensive text covers the basic design and development

physics of the solid state starting at an elementary level suitable for undergraduates but then advancing in stages to a graduate and advanced graduate level In addition to treating the fundamental elastic electrical thermal magnetic structural electronic transport optical mechanical and compositional properties we also discuss topics like superfluidity and superconductivity along with special topics such as strongly correlated systems high temperature superconductors the quantum Hall effects and graphene Particular emphasis is given to so called first principles calculations utilizing modern density functional theory which for many systems now allow accurate calculations of the electronic magnetic and thermal Solution-Processable Components for Organic Electronic Devices Beata Luszczynska, Krzysztof Matyjaszewski, Jacek Ulanski, 2019-06-11 Provides first hand insights into advanced fabrication techniques for solution processable organic electronics materials and devices The field of printable organic electronics has emerged as a technology which plays a major role in materials science research and development Printable organic electronics soon compete with and for specific applications can even outpace conventional semiconductor devices in terms of performance cost and versatility Printing techniques allow for large scale fabrication of organic electronic components and functional devices for use as wearable electronics health care sensors Internet of Things monitoring of environment pollution and many others yet to be conceived applications The first part of Solution Processable Components for Organic Electronic Devices covers the synthesis of soluble conjugated polymers solution processable nanoparticles of inorganic semiconductors high k nanoparticles by means of controlled radical polymerization advanced blending techniques yielding novel materials with extraordinary properties The book also discusses photogeneration of charge carriers in nanostructured bulk heterojunctions and charge carrier transport in multicomponent materials such as composites and nanocomposites as well as photovoltaic devices modelling The second part of the book is devoted to organic electronic devices such as field effect transistors light emitting diodes photovoltaics photodiodes and electronic memory devices which can be produced by solution based methods including printing and roll to roll manufacturing The book provides in depth knowledge for experienced researchers and for those entering the field It comprises 12 chapters focused on novel organic electronics components synthesis and solution based processing techniques advanced analysis of mechanisms governing charge carrier generation and transport in organic semiconductors and devices fabrication techniques and characterization methods of organic electronic devices Providing coverage of the state of the art of organic electronics Solution Processable Components for Organic Electronic Devices is an excellent book for materials scientists applied physicists engineering scientists and those working in the electronics industry

Field, Thermionic and Secondary Electron Emission Spectroscopy A. Modinos,2013-11-11 **Scientific, Medical** Reginald Robert Hawkins,1950 *Oxide Thin Film Transistors* Yue Kuo,Hideo Hosono,Michael S. Shur,Jin Jang,2025-01-29 Comprehensive resource reviewing fundamentals device physics and reliability fabrication processes and numerous emerging applications of oxide thin film transistor technology over performing traditional thin film transistor technologies

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