

Engineering Science Series
Solid-State Semiconductors

K. Seeger

Semiconductor Physics

An Introduction

Second Corrected and Updated Edition



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Semiconductor Physics An Introduction:

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Semiconductor Physics Karlheinz Seeger, 2013-06-29 *Semiconductor Physics An Introduction* is suitable for the senior undergraduate or new graduate student majoring in electrical engineering or physics It will also be useful to solid state scientists and device engineers involved in semiconductor design and technology The text provides a lucid account of band structure density of states charge transport energy transport and optical processes and a detailed description of many devices It includes sections on superlattices and quantum well structures the effects of deep level impurities on transport the quantum Hall effect and the calculation of the influence of a magnetic field on the carrier distribution function This 7th edition has been revised and corrected and new sections have been added to some chapters e g a section on the fractional quantum Hall effect

Semiconductor Physics Karlheinz Seeger, 2013-11-09 This book has been designed primarily as a text book for a three semester three hour per week senior or graduate course in semiconductor physics for students in electrical engineering and physics It may be supplemented by a solid state physics course Prerequisites are courses in electrodynamics and for some of the chapters basic quantum mechanics Emphasis has been laid on physical rather than technological aspects Semiconductor physics is in fact an excellent and demanding training ground for a future physicist or electrical engineer giving him an opportunity to practice a large variety of physical laws he was

introduced to in the more fundamental courses A detailed treatment of the transport and optical properties of semiconductors is given It was decided to omit the usual description of the material properties of certain semiconductors and instead to include the in between equations In mathematical derivations which I hope will make life simpler for a non theoretical physicist In view of the many thousands of papers which appear every year in the field of semiconductor physics and which are distributed among more than 30 journals it would have been impossible for a single person to write comprehensive book unless there had not been some excellent review articles on special topics published in the series Solid State Physics Festkörper Probleme Advances in Solid State Physics Semiconductors and Semimetals and Progress in Semiconductors and I have leaned heavily on such review articles

Semiconductor Physics: An Introduction, 9E Karlheinz Seeger, 2007-05-01 [Introduction to Semiconductor Physics](#) R. B. Adler, 1964 [Introduction to Semiconductor Physics](#) Holger T. Grahn, 1999 **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

Introductory Semiconductor Device Physics Greg Parker, 2004-09-30

Introduction to Semiconductor Device Physics is a popular and established text that offers a thorough introduction to the underlying physics of semiconductor devices It begins with a review of basic solid state physics then goes on to describe the properties of semiconductors including energy bands the concept of effective mass carrier concentration

Introduction to Semiconductor Physics Richard B. Adler, Arthur C. Smith, Richard L. Longini, 1966 [Introduction to Semiconductor Physics](#) Adler, 1964-01-01

[Introduction to Semiconductor Physics and Devices](#) Mykhaylo Evstigneev, 2022-09-29 This classroom tested textbook provides a self contained one semester course in semiconductor physics and devices that is ideal preparation for students to

enter burgeoning quantum industries Unlike other textbooks on semiconductor device physics it provides a brief but comprehensive introduction to quantum physics and statistical physics with derivations and explanations of the key facts that are suitable for second year undergraduates rather than simply postulating the main results The book is structured into three parts each of which can be covered in around ten lectures The first part covers fundamental background material such as quantum and statistical physics and elements of crystallography and band theory of solids Since this provides a vital foundation for the rest of the text concepts are explained and derived in more detail than in comparable texts For example the concepts of measurement and collapse of the wave function which are typically omitted are presented in this text in language accessible to second year students The second part covers semiconductors in and out of equilibrium and gives details which are not commonly presented such as a derivation of the density of states using dimensional analysis and calculation of the concentration of ionized impurities from the grand canonical distribution Special attention is paid to the solution of Poisson's equation a topic that is feared by many undergraduates but is brought back down to earth by techniques and analogies from first year physics Finally in the third part the material in parts 2 and 3 is applied to describe simple semiconductor devices including the MOSFET the Schottky and PN junction diodes and optoelectronic devices With a wide range of exercises this textbook is readily adoptable for an undergraduate course on semiconductor physics devices and with its emphasis on consolidating and applying knowledge of fundamental physics it will leave students in engineering and the physical sciences well prepared for a future where quantum industries proliferate

The Physics of Semiconductors Marius Grundmann, 2015-12-24 The 3rd edition of this successful textbook contains ample material for a comprehensive upper level undergraduate or beginning graduate course guiding readers to the point where they can choose a special topic and begin supervised research The textbook provides a balance between essential aspects of solid state and semiconductor physics on the one hand and the principles of various semiconductor devices and their applications in electronic and photonic devices on the other It highlights many practical aspects of semiconductors such as alloys strain heterostructures nanostructures that are necessary in modern semiconductor research but typically omitted in textbooks Coverage also includes additional advanced topics such as Bragg mirrors resonators polarized and magnetic semiconductors nanowires quantum dots multi junction solar cells thin film transistors carbon based nanostructures and transparent conductive oxides The text derives explicit formulas for many results to support better understanding of the topics The Physics of Semiconductors requires little or no prior knowledge of solid state physics and evolved from a highly regarded two semester course In the third edition several topics are extended and treated in more depth including surfaces disordered materials amorphous semiconductors polarons thermopower and noise More than 1800 references guide the reader to historic and current literature including original and review papers and books

An Introduction to Semiconductor Devices Donald A Neamen, 2006 An Introduction to Semiconductor Devices by Donald Neamen is designed to provide a fundamental understanding of the characteristics

operations and limitations of semiconductor devices In order to meet this goal the book brings together explanations of fundamental physics of semiconductor materials and semiconductor device physics This new text provides an accessible and modern approach to the material Aimed at the undergraduate Neamen keeps coverage of quantum mechanics to a minimum and labels the most advanced material as optional MOS transistors are covered before bipolar transistors to reflect the dominance of MOS coverage in today's world **BOOK JACKET** *Studyguide for Semiconductor Physics* Cram101 Textbook Reviews, 2013-05 Never HIGHLIGHT a Book Again Includes all testable terms concepts persons places and events Cram101 Just the FACTS101 studyguides gives all of the outlines highlights and quizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanies 9780872893795 This item is printed on demand **Essentials of Semiconductor Physics** W. Tom Wenckebach, 1999-11-05 Provides a modern introduction to semiconductor physics presenting the basic information necessary to understand semiconductors along with some of the latest theories and developments Based on the author's undergraduate course this book bridges the gap between basic subjects such as quantum mechanics and Maxwell's equations and the fundamental processes determining the behaviour of semiconductors Following a quantum mechanics approach this text is predominantly aimed at scientists rather than engineers and forms the basis for the understanding of modern mesoscopic physics in semiconductors and quantum devices like resonant tunneling diodes Rather than attempting to comprehensively cover all aspects of semiconductor physics this text aims to cover the most important and interesting aspects of this subject to scientists Starting with the development of semiconductor physics from basic quantum mechanics the text moves on to cover band structure and effective mass theory before covering electron phonon coupling and charge transport It concludes with a chapter on optical transitions Students will need some knowledge of quantum mechanics and solid state although this is covered to some extent in the book **FEATURES** Concise introduction to the basics of semiconductor physics Bridges the gap between fundamental subjects such as quantum mechanics and Maxwell's equations and the processes determining the behaviour of semiconductors Describes semiconductor theory from a full quantum mechanical approach An accessible introduction avoiding reliance on group theory **CONTENTS** Preface Notation Conventions Introduction Electrons nuclei and Hamiltonians Band Structure The k p Approximation Effective Mass Theory The Crystal Lattice Electron phonon Coupling Charge Transport Optical Transitions Band Electrons in an Optical Field Appendix A The Hydrogen Atom Appendix B The Harmonic Oscillator Appendix C Perturbation Theory Appendix D Tensors in Cubic Crystals Appendix E The Classical Limit Appendix F Some Fourier Transforms Appendix G Exercises Bibliography **Introduction to Semiconductor Physics** Edwin Ford Beckenbach, 1964 The Physics of Low-dimensional Semiconductors John H. Davies, 1997-12-13 The composition of modern semiconductor heterostructures can be controlled precisely on the atomic scale to create low dimensional systems These systems have revolutionised semiconductor physics and their impact on technology particularly for semiconductor lasers and ultrafast

transistors is widespread and burgeoning This book provides an introduction to the general principles that underlie low dimensional semiconductors As far as possible simple physical explanations are used with reference to examples from actual devices The author shows how beginning with fundamental results from quantum mechanics and solid state physics a formalism can be developed that describes the properties of low dimensional semiconductor systems Among numerous examples two key systems are studied in detail the two dimensional electron gas employed in field effect transistors and the quantum well whose optical properties find application in lasers and other opto electronic devices The book includes many exercises and will be invaluable to undergraduate and first year graduate physics or electrical engineering students taking courses in low dimensional systems or heterostructure device physics **Semiconductor physics** ,2018 *Introduction to Semiconductor Physics* Richard B. Adler,1964

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