



# SEMICONDUCTOR PHYSICS

## PRINCIPLES OF ELECTRONICS

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# Semiconductor Physics An Introduction

**RD Boyd**



## **Semiconductor Physics An Introduction:**

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**Semiconductor Physics** Karlheinz Seeger, 2013-04-17 It is a pleasure to take the opportunity to express my sincere gratitude to many colleagues who provided valuable hints for improvements even including lists of misprints which I hope have now been completely eliminated It is not possible to name all of them and so I will only mention the interesting discussions over so many years I had with Professor Hans W Pötzl of the Technical University of Vienna on the occasion of our common weekly semiconductor seminar I am grateful to Professor H J Queisser and Professor M Cardona for helpful criticism Special thanks are due to Frau Jitka Fucik for typing and Frau Viktoria Kver for drawing services The cooperation with Dr H K Lotsch of Springer Verlag has been a pleasure Vienna January 1982 K Seeger Contents 1 Elementary Properties of Semiconductors I 1 1 Insulator Semiconductor Semimetal Metal 1 1 2 The Positive Hole 3 1 3 Conduction Processes Compensation Law of Mass Action 4 Problems 8 2 Energy Band Structure 10 2 1 Single and Periodically Repeated Potential Well 10 2 2 Energy Bands by Tight Binding of Electrons to Atoms 17 2 3 The Brillouin Zone 21 2 4 Constant Energy Surfaces 30 Problems 33 3 Semiconductor Statistics 34 3 1 Fermi Statistics 35 3 2 Occupation Probabilities of Impurity Levels 39 Problems 45 4 Charge and Energy Transport in a Nondegenerate Electron Gas

**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

**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

*Semiconductor Physics: An Introduction, 9E* Karlheinz Seeger, 2007-05-01      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 theoretician 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

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* R. B. Adler, 1964      **Introduction to Semiconductor Physics** Holger T. Grahn, 1999 This book covers the physics of semiconductors on an introductory level assuming that the reader already has some knowledge of condensed matter physics Crystal structure band structure carrier transport phonons scattering processes and optical properties are presented for typical semiconductors such as silicon but III V and II VI compounds are also included In view of the increasing importance of wide gap semiconductors the electronic and optical properties of these materials are dealt with too

**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     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     The Physics of Semiconductors Marius Grundmann,2006 Semiconductor Physics provides material for a comprehensive upper level undergraduate and graduate course on the subject 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 For the interested reader some additional advanced topics are included such as Bragg mirrors resonators polarized and magnetic semiconductors are included Also supplied are explicit formulas in Mathematica format for many results to support better understanding Semiconductor Physics requires

little or no prior knowledge of solid state physics and aims to supply the clear and applied focus lacking in competing literature

**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

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**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 optoelectronic 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

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physical processes upon which all semiconductor devices diodes transistor light emitters and detectors are based Topics such as bandstructure effective masses holes doping carrier transport and lifetimes are discussed Next the author focuses on the operation of the important semiconductor devices along with issues relating to the optimization of device performance Issues such as how doping device dimensions and parasitic effects influence device operation are also included The book is appropriate for the following courses Device Physics Semiconductor Devices Device Electronics Physics of Semiconductor Devices Integrated Circuit Devices Device Electronics Solid State Devices

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