

Mykhaylo Evstigneev

# Introduction to Semiconductor Physics and Devices

 Springer

# Semiconductor Physics An Introduction

**Robert W. Keyes, Mary Y. Lanzerotti**



## **Semiconductor Physics An Introduction:**

*Semiconductor Physics* Karlheinz Seeger, 2004-06-09 This book will be useful to solid state scientists device engineers and students involved in semiconductor design and technology It provides a lucid account of band structure density of states charge transport energy transport and optical processes along with a detailed description of many devices It includes sections on superlattices and quantum well structures the effects of deep level impurities on transport and the quantum Hall effect This 8th edition has been revised and updated including several new sections

**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 Ptzl 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, 2013-11-09 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 semiconductor 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** Karlheinz Seeger,1991-10-04 Televisions telephones watches calculators robots airplanes and space vehicles all depend on silicon chips Life as we know it would hardly be possible without semiconductor devices An understanding of how these devices work requires a detailed knowledge of the physics of semiconductors including charge transport and the emission and absorption of electromagnetic waves This book may serve both as a university textbook and as a reference for research and microelectronics engineering Each section of the book begins with a description of an experiment The theory is then developed as far as necessary to understand the experimental results Everyone with high school mathematics should be able to follow the calculations The band structure calculations for the diamond and zinc blende types of lattice are supplemented with a personal computer program Semiconductor physics developed most rapidly in the two decades following the invention of the transistor and naturally most of the references date from this time But recent developments such as the Gunn effect the acoustoelectric effect superlattices quantum well structures and the quantum Hall effect are also discussed The exercises provided answers to which are available will greatly assist the student in consolidating the material presented From the reviews This book is a must for any theoretical and experimental physicist working in the area of semiconductor physics Physicalia 1     [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](#) R. B. Adler,1964

**Semiconductor Physics: An Introduction, 9E** Karlheinz Seeger,2007-05-01     [Introduction to Semiconductor Physics](#) Richard B. Adler,Arthur C. Smith,Richard L. Longini,1966     **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 concentr

**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 [Introduction to Semiconductor Physics](#)

Adler,1964-01-01 [The Physics of Semiconductors](#) Marius Grundmann,2006-11-22

Semiconductor devices are now a days common place 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 University at 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 [\*\*The Physics of Semiconductors\*\*](#) Marius Grundmann,2010-11-11

Semiconductor electronics is common place in every household Semiconductor devices have also enabled economically reasonable fiber based optical communication optical storage and high frequency amplification and have 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 progress of semiconductor materials and devices is evolving continuously with a large worldwide effort in human and monetary capital For students semiconductors offer a rich diverse and exciting field with a great tradition and a bright future This book introduces students to semiconductor physics and semiconductor devices It brings them to the point where they can specialize and enter supervised laboratory research It is based on the two semester semiconductor physics course taught at Universität Leipzig in its Master of Science physics curriculum Since the book can be followed with little or no pre-existing knowledge in solid state physics and quantum mechanics it is also suitable for undergraduate students For the interested reader some additional topics are included in the book that can be covered in subsequent more specialized courses The material is selected to provide a balance between aspects of solid state and semiconductor physics the concepts of various semiconductor devices and modern applications in electronics and photonics

*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

[Introduction to Semiconductor Materials and Devices](#) M. S. Tyagi, 1991 This comprehensive introduction to the elementary theory and properties of semiconductors describes the basic physics of semiconductor materials and technologies for fabrication of semiconductor devices Addresses approaches to modeling and provides details of measurement techniques Includes numerous illustrative examples and graded problems

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*Introductory Semiconductor Device Physics for Chip Design and Manufacturing* Robert W. Keyes, Mary Y. Lanzerotti, 2018-01-03 An introduction to the fundamentals of semiconductor physics and engineering This book discusses

fundamental semiconductor physics of devices and on chip interconnections for physicists and links these concepts to engineering applications and case studies of computer chips The book is organized in three parts The first part deals with the representation of information and computation The second part covers semiconductor device physics within the context of computation The third part reviews chip design and semiconductor fabrication The book includes relevant equations with the aim of closing the gap in the existing literature with actual case studies and engineering applications Examples are provided in each chapter to illustrate physical and electrical concepts through the use of high performance silicon technologies

**Introductory Semiconductor Device Physics for Chip Design and Manufacturing** Provides physical descriptions and illustrations with data visualizations to facilitate intuitive understanding of semiconductor physics devices and on chip interconnections Blends theoretical physics treatment with engineering applications and real case studies for manufactured chips Presents complementary metal oxide semiconductor CMOS transistors in high performance server microprocessors with static CMOS combinational digital circuit design examples Offers a rich array of student problem sets mid term exams and final exams with a glossary at the end of the book

M Y Lanzerotti PhD has over 15 years of engineering experience in designing integrated circuits for high performance server chips and aerospace applications Dr Lanzerotti is Assistant Professor of Physics at Augsburg College and previously held positions as Associate Professor of Computer Engineering at Air Force Institute of Technology Instructor at Harvard Summer School Visiting Faculty Fellow at Pacific Lutheran University Visiting Faculty Fellow at Sapienza University of Rome and Research Staff Member at IBM Thomas J Watson Research Center This book is inspired from Dr Lanzerotti s course **Introductory Semiconductor Device Physics for Chip Design and Manufacturing** at Harvard Summer School Dr Lanzerotti holds physics degrees from Harvard College the University of Cambridge and Cornell University Dr Lanzerotti holds four U S patents was awarded an IEEE Technical Innovation Award in 2007 and an IBM Outstanding Research Contribution Award in 1998 and was Editor in Chief of the IEEE Solid State Circuits Society Magazine

**Introduction to Semiconductor Physics ... [By] R.B. Adler ... A.C. Smith ... R.L. Longini** Richard Brooks ADLER, Richard Leon LONGINI, Arthur Clarke SMITH, 1964

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