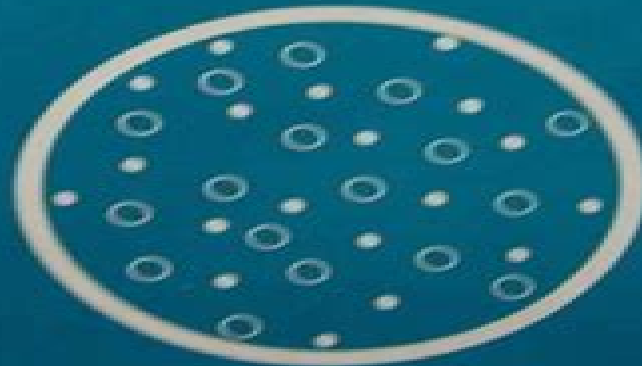


SOLID-STATE AND SEMICONDUCTOR PHYSICS

John P. McKelvey



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Harald Ibach, Hans Lüth



Solid State Semiconductor Physics:

Fundamentals Of Solid State Electronics Chih Tang Sah, 1991-10-30 This is perhaps the most comprehensive undergraduate textbook on the fundamental aspects of solid state electronics It presents basic and state of the art topics on materials physics device physics and basic circuit building blocks not covered by existing textbooks on the subject Each topic is introduced with a historical background and motivations of device invention and circuit evolution Fundamental physics is rigorously discussed with minimum need of tedious algebra and advanced mathematics Another special feature is a systematic classification of fundamental mechanisms not found even in advanced texts It bridges the gap between solid state device physics covered here with what students have learnt in their first two years of study Used very successfully in a one semester introductory core course for electrical and other engineering materials science and physics junior students the second part of each chapter is also used in an advanced undergraduate course on solid state devices The inclusion of previously unavailable analyses of the basic transistor digital circuit building blocks and cells makes this an excellent reference for engineers to look up fundamental concepts and data design formulae and latest devices such as the GeSi heterostructure bipolar transistors

Introduction to Applied Solid State Physics Richard Dalven, 2012-12-06 The aim of this book is a discussion at the introductory level of some applications of solid state physics The book evolved from notes written for a course offered three times in the Department of Physics of the University of California at Berkeley The objects of the course were a to broaden the knowledge of graduate students in physics especially those in solid state physics b to provide a useful course covering the physics of a variety of solid state devices for students in several areas of physics c to indicate some areas of research in applied solid state physics To achieve these ends this book is designed to be a survey of the physics of a number of solid state devices As the italics indicate the key words in this description are physics and survey Physics is a key word because the book stresses the basic qualitative physics of the applications in enough depth to explain the essentials of how a device works but not deeply enough to allow the reader to design one The question emphasized is how the solid state physics of the application results in the basic useful property of the device An example is how the physics of the tunnel diode results in a negative dynamic resistance Specific circuit applications of devices are mentioned but not emphasized since expositions are available in the electrical engineering textbooks given as references

Solid State Electronic Devices Ben G. Streetman, Sanjay Banerjee, 2015 One of the most widely used introductory books on semiconductor materials physics devices and technology Solid State Electronic Devices aims to 1 develop basic semiconductor physics concepts so students can better understand current and future devices and 2 provide a sound understanding of current semiconductor devices and technology so that their applications to electronic and optoelectronic circuits and systems can be appreciated Students are brought to a level of understanding that will enable them to read much of the current literature on new devices and applications Amazon

Solid State Physics Mircea S. Rogalski, Stuart B. Palmer, 2000-05-30 Solid State

Physics opens with the adiabatic approximation to the many body problem of a system of ions and valence electrons After chapters on lattice symmetry structure and dynamics it then proceeds with four chapters devoted to the single electron theory of the solid state Semiconductors and dielectrics are covered in depth and chapters on m

Fundamentals of Solid State Engineering Manijeh Razeghi, 2006-06-12 Fundamentals of Solid State Engineering 2nd Edition provides a multi disciplinary introduction to Solid State Engineering combining concepts from physics chemistry electrical engineering materials science and mechanical engineering Basic physics concepts are introduced followed by a thorough treatment of the technology for solid state engineering Topics include compound semiconductor bulk and epitaxial thin films growth techniques current semiconductor device processing and nano fabrication technologies Examples of semiconductor devices and a description of their theory of operation are then discussed including transistors semiconductor lasers and photodetectors Revised throughout this second edition includes new chapters on the reciprocal lattice optical properties of semiconductors semiconductor heterostructures semiconductor characterization techniques and an introduction to lasers Additions and improvements have been made to the material on photodetectors and quantum mechanics as well as to the problem sections

Solid State Physics J. S. Blakemore, 1985-12-12 Updated to reflect recent work in the field this book emphasizes crystalline solids going from the crystal lattice to the ideas of reciprocal space and Brillouin zones and develops these ideas for lattice vibrations for the theory of metals and for semiconductors The theme of lattice periodicity and its varied consequences runs through eighty percent of the book Other sections deal with major aspects of solid state physics controlled by other phenomena superconductivity dielectric and magnetic properties and magnetic resonance

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 Physics Harald Ibach, Hans Lüth, 2012-12-06 In recent decades solid state physics has seen many dramatic new developments and has become one of the largest independent branches of physics It has simultaneously ex panded into

many new areas playing a vital role in fields that were once the domain of the engineering and chemical sciences. A consequence of this explosive development is that no single university lecturer can today be expected to have a detailed knowledge of all aspects of this vast subject. Likewise, it is impossible to conceive of a course that could offer students a comprehensive understanding of the entire discipline and its many applications. In view of this situation, it is particularly valuable to have a textbook that gives a concise account of the essential elements of the physics of solids. In this book, the fundamental aspects of solid state physics are presented according to the scheme: Chemical bonding, structure, lattice dynamics, and electronic properties. We believe that this sequence is the optimum choice for tutorial purposes. It enables the more difficult concepts to be introduced at a point where a basic understanding of fundamental ideas has already been achieved through the study of simple models and examples. In addition to this carefully structured exposition of classical solid state theory based on the periodic solid and the one electron approximation, the book also includes comprehensive descriptions of the most active areas in modern research: Magnetism, superconductivity, and semiconductor physics.

Introduction to Solid-state Electronics Ija P. Ipatova, Vladimir Vasil'evich Mitin, 1996-01. Introduction to Solid State Electronics combines a modern presentation of semiconductor physics with a description of the principles of semiconductor devices. It unites the authors' extensive teaching and research experience with the requirements of an introductory graduate course in Solid State Electronics for engineering students. Since a crystal is an object of high symmetry, some simple techniques which do not require knowledge of the mathematical groups at the professional level are used for the application of symmetry to the analysis of band structures. The textbook outlines the properties of low dimensional structures in parallel with those of bulk materials. The authors have made the mathematical derivations both as self contained and as simple as possible without using arguments of the type "it can be easily shown that". This technique is just one of many that enables the book to provide a clear comprehensive understanding of the main properties of semiconductors and their relations to device structures.

Introduction to Applied Solid State Physics R. Dalven, 2012-12-06. In addition to the topics discussed in the First Edition, this Second Edition contains introductory treatments of superconducting materials and of ferromagnetism. I think the book is now more balanced because it is divided perhaps 60% / 40% between devices of all kinds and materials of all kinds. For the physicist interested in solid state applications, I suggest that this ratio is reasonable. I have also rewritten a number of sections in the interest of hopefully increased clarity. The aims remain those stated in the Preface to the First Edition: the book is a survey of the physics of a number of solid state devices and materials. Since my object is a discussion of the basic ideas in a number of fields, I have not tried to present the state of the art, especially in semiconductor devices. Applied solid state physics is too vast and rapidly changing to cover completely, and there are many references available to recent developments. For these reasons, I have not treated a number of interesting areas. Among the lacunae are superlattices, heterostructures, compound semiconductor devices, ballistic transistors, integrated optics, and light wave communications.

Suggested references to those subjects are given in an appendix I have tried to cover some of the recent revolutionary developments in superconducting materials *Solid State Physics* ,2014 *Elements of Solid State Physics* Michael N. Rudden, John Wilson, 1993-06-07 *Elements of Solid State Physics* Second Edition M N Rudden and J Wilson University of Northumbria at Newcastle Newcastle upon Tyne UK This textbook provides a basic introduction to the principles of solid state physics and semiconductor devices and will prove essential for first and second year students of physics materials science and electrical electronic engineering courses It assumes no prior knowledge of quantum or statistical mechanics and relies on simple models to illustrate the physical principles However the opportunity has been taken in this edition to extend the concept of energy bands to a consideration of E k curves and certain new material has been added notably relating to superconductivity and optoelectronic devices including lasers following significant developments in these areas *Elements of Solid State Physics* Second Edition presents the student with an essentially non mathematical approach to the subject Arranged in a logical sequence with many clear illustrations each chapter has a number of worked examples and discussion points as well as questions and answers Readers of this fully revised and updated edition will receive a thorough grounding in the principles of solid state physics and should have sufficient knowledge about modern electronic devices to proceed to more advanced texts in this area

Main Contents Some Aspects of Modern Physics Structure of Crystalline Solids Theories of Conduction and Magnetism Energy Bands in Solids Quantum Theory of Conduction Semiconductor Devices **Introduction to Solid State Electronics** Franklin F. Y. Wang, 1980 *Solid State Physics and Electronics* RK Puri | VK Babbar, 2008 The present edition is brought up to incorporate the useful suggestions from a number of readers and teachers for the benefit of students A topic on common collector configuration is added to the chapter XIII A new chapter on logic gates is introduced at the end Keeping in view the present style of university Question papers a number of very short short and long thoroughly revised and corrected to remove the errors which crept into earlier editions **Solid State and Semiconductor Physics** John Philip MacKelvey, 1966 *Solid State Physics* Dr. Om Prakash Pahuja, 2005-12 *Physics of Semiconductor Devices* J.-P. Colinge, C.A. Colinge, 2005-10-03 *Physics of Semiconductor Devices* covers both basic classic topics such as energy band theory and the gradual channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short channel effects low dimensional devices and single electron transistors Concepts are introduced to the reader in a simple way often using comparisons to everyday life experiences such as simple fluid mechanics They are then explained in depth and mathematical developments are fully described *Physics of Semiconductor Devices* contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner **Semiconductor Physics and Applications** M. Balkanski, Richard Fisher Wallis, 2000-08-31 This textbook covers the basic physics of semiconductors and their applications to practical devices with emphasis on the basic physical principles upon which these devices operate Extensive use of figures

is made to enhance the clarity of the presentation and to establish contact with the experimental side of the topic Graduate students and lecturers in semiconductor physics condensed matter physics electromagnetic theory and quantum mechanics will find this a useful textbook and reference work

Solid State and Semiconductor Physics John P. MacKelvey, 1969

Solid State Physical Electronics Aldert Van der Ziel, 1976

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