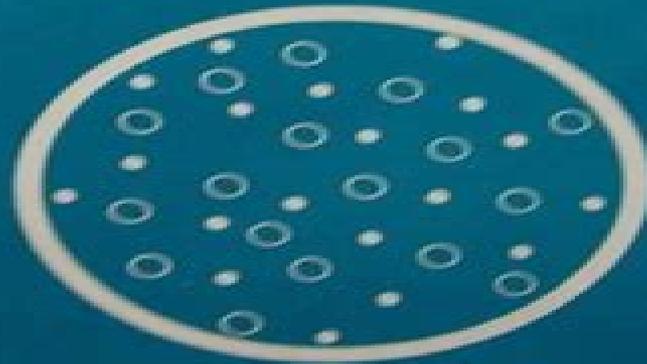


# SOLID-STATE AND SEMICONDUCTOR PHYSICS

*John P. McKelvey*



*Harper & Row*

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**Chih Tang Sah**



## **Solid State And Semiconductor Physics:**

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*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* 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 Physical Electronics** Aldert Van der Ziel,1976 *Solid State Physics* ,2014

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

**Elements of Solid State Physics** Michael N. Rudden,John Wilson,1993-05-24 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 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 magnetism and superconductivity follow The book concludes with a chapter on solid surfaces Every section is followed by solved problems some of them illustrating areas of current interest in solid state physics to give the student a practical working knowledge of the subject and the text is illustrated by many supplementary examples

*Solid State and Semiconductor Physics* John P. McKelvey, 1985      **Introduction to Solid State Electronics** Franklin F. Y. Wang, 1980      **Solid State and Semiconductor Physics** John Philip McKelvey, 1986      **Solid State Electronic Devices** Ben G. Streetman, 1980      **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      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      **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 Physics** Dr. Om Prakash Pahuja, 2005-12

**Solid State Physics** Ajay Kumar Saxena,

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