

Philip Hofmann

# Solid State Physics

An Introduction

Second Edition



# Solid State Physics

**James Deane Patterson, Bernard C.  
Bailey**



## **Solid State Physics:**

*Solid State Physics* Frederick Seitz, David Turnbull, 1961 *Solid State Physics* V12 *Solid State Physics* Neil W. Ashcroft, N. David Mermin, 1976 This book provides an introduction to the field of solid state physics for undergraduate students in physics chemistry engineering and materials science [Solid State Physics](#) Giuseppe Grosso, Giuseppe Pastori Parravicini, 2000-02-14 Although there are many books published in solid state physics there is a wide gap between the active field of research and the concepts traditionally taught in solid state courses This book fills that gap The style is tutorial simple and completely self contained *Solid State Physics* explains to readers the newest advances in the area of condensed matter physics with rigorous but lucid mathematics Examples are an integral part of the text and they are carefully designed to apply the fundamental principles illustrated in the text to currently active topics of research Bridges the gap between fundamental principles and active fields of research including explanations of all the latest advances Provides an in depth treatment of current research topics Examples are integral to the text and apply fundamental principles to current topics of research Both authors have many years of experience of teaching at a variety of levels undergraduate post graduate tutorial workshops and seminars **Introduction to Solid State Physics, 7th Ed** Kittel, 2007 Market\_Desc Physicists Engineers Senior and Graduate Level Students of Solid State Physics Professors of Solid State Physics Special Features Kittel is a world authority in solid state physics Known to the physics community as the definitive work on solid state physics About The Book This is an updated edition of the definitive text in Solid State Physics *Solid State Physics* is concerned with the properties that result from the distribution of electrons in metals semiconductors and insulators The book also demonstrates how the changes and imperfections of real solids can be understood with simple models *Solid State Physics* Gerald Burns, 2013-10-22 The objective of *Solid State Physics* is to introduce college seniors and first year graduate students in physics electrical engineering materials science chemistry and related areas to this diverse and fascinating field I have attempted to present this complex subject matter in a coherent integrated manner emphasizing fundamental scientific ideas to give the student a strong understanding and feel for the physics and the orders of magnitude involved The subject is varied covering many important sophisticated and practical areas which at first may appear unrelated but which are actually built on the same foundation the bonding between atoms the periodic translational symmetry and the resulting electron energy levels The text is comprehensive enough so that the basics of broad areas of present research are covered yet flexible enough so that courses of varying lengths can be satisfied the exercises at the end of each chapter serve to reinforce and extend the text [Solid State Physics](#) Philip Hofmann, 2015-04-30 A must have textbook for any undergraduate studying solid state physics This successful brief course in solid state physics is now in its second edition The clear and concise introduction not only describes all the basic phenomena and concepts but also such advanced issues as magnetism and superconductivity Each section starts with a gentle introduction covering basic principles progressing to a more advanced

level in order to present a comprehensive overview of the subject The book is providing qualitative discussions that help undergraduates understand concepts even if they can't follow all the mathematical detail The revised edition has been carefully updated to present an up to date account of the essential topics and recent developments in this exciting field of physics The coverage now includes ground breaking materials with high relevance for applications in communication and energy like graphene and topological insulators as well as transparent conductors The text assumes only basic mathematical knowledge on the part of the reader and includes more than 100 discussion questions and some 70 problems with solutions free to lecturers from the Wiley VCH website The author's webpage provides Online Notes on x ray scattering elastic constants the quantum Hall effect tight binding model atomic magnetism and topological insulators This new edition includes the following updates and new features Expanded coverage of mechanical properties of solids including an improved discussion of the yield stress Crystal structure mechanical properties and band structure of graphene The coverage of electronic properties of metals is expanded by a section on the quantum hall effect including exercises New topics include the tight binding model and an expanded discussion on Bloch waves With respect to semiconductors the discussion of solar cells has been extended and improved Revised coverage of magnetism with additional material on atomic magnetism More extensive treatment of finite solids and nanostructures now including topological insulators Recommendations for further reading have been updated and increased New exercises on Hall mobility light penetrating metals band structure

*Introduction to Solid State Physics*, 2015      **Lectures on Solid State Physics** Georg Busch, Horst Schade, 2013-10-22  
Lectures on Solid State Physics is a compilation of lectures concerned with various branches of solid state physics It aims to develop basic physical ideas that lead to a better understanding of phenomena and effects Comprised of 11 chapters this book discusses several topics on solid state physics structure of solids interference effects in crystals lattice dynamics perfect and imperfect crystals electrons and electron theory of metals semiconductors electrical contact effects transport phenomena and magnetism Students physics graduates electrical engineers chemists and metallurgists will find this book invaluable

**Introduction to Solid State Physics** Charles Kittel, 1976 Since the publication of the first edition over 50 years ago Introduction to Solid State Physics has been the standard solid state physics text for physics students The author's goal from the beginning has been to write a book that is accessible to undergraduates and consistently teachable The emphasis in the book has always been on physics rather than formal mathematics With each new edition the author has attempted to add important new developments in the field without sacrificing the book's accessibility and teachability A very important chapter on nanophysics has been written by an active worker in the field This field is the liveliest addition to solid state science during the past ten years The text uses the simplifications made possible by the wide availability of computer technology Searches using keywords on a search engine such as Google easily generate many fresh and useful references      [Solid-State Physics](#) James Deane Patterson, Bernard C. Bailey, 2007 Learning solid state physics involves a certain degree of maturity

since it involves tying together diverse concepts from many areas of physics The objective is to understand in a basic way how solid materials behave To do this one needs both a good physical and mathematical background One definition of solid state physics is that it is the study of the physical e g the electrical dielectric magnetic elastic and thermal properties of solids in terms of basic physical laws In one sense solid state physics is more like chemistry than some other branches of physics because it focuses on common properties of large classes of materials It is typical that solid state physics emphasizes how physics properties link to electronic structure We have retained the term solid state physics even though condensed matter physics is more commonly used Condensed matter physics includes liquids and non crystalline solids such as glass which we shall not discuss in detail Modern solid state physics came of age in the late thirties and forties and had its most extensive expansion with the development of the transistor integrated circuits and microelectronics Most of microelectronics however is limited to the properties of inhomogeneously doped semiconductors Solid state physics includes many other areas of course among the largest of these are ferromagnetic materials and superconductors Just a little less than half of all working physicists are in condensed matter A course in solid state physics typically begins with three broad areas 1 How and why atoms bind together to form solids 2 Lattice vibrations and phonons and 3 Electrons in solids One would then typically apply the above to 4 Interactions especially of electrons with phonons 5 Metals the Fermi surface and alloys 6 Semiconductors 7 Magnetism 8 Superconductivity 9 Dielectrics and ferroelectrics 10 Optical properties 11 Defects and 12 Certain other modern topics such as layered materials quantum Hall effect mesoscopics nanophysics and soft condensed matter In this book we will consider all of these

**Solid State Physics** Siegfried Hunklinger, Christian Enss, 2022-06-06 This highly regarded textbook provides a general introduction to solid state physics It covers a wide range of physical phenomena occurring in solids and discusses fundamental concepts for describing them Traditional themes are complimented by modern topics like low dimensional systems strongly correlated materials nanoscale systems and non crystalline solids which are gaining increasing technical and scientific importance Helpful for exam preparation are numerous exercises in all chapters

**Problems In Solid State Physics With Solutions** Fuxiang Han, 2011-10-31 This book provides a practical approach to consolidate one s acquired knowledge or to learn new concepts in solid state physics through solving problems It contains 300 problems on various subjects of solid state physics The problems in this book can be used as homework assignments in an introductory or advanced course on solid state physics for undergraduate or graduate students It can also serve as a desirable reference book to solve typical problems and grasp mathematical techniques in solid state physics In practice it is more fascinating and rewarding to learn a new idea or technique through solving challenging problems rather than through reading only In this aspect this book is not a plain collection of problems but it presents a large number of problem solving ideas and procedures some of which are valuable to practitioners in condensed matter physics

*Solid State Physics* John J. Quinn, Kyung-Soo Yi, 2018-02-23 This book provides the basis for a

two semester graduate course on solid state physics The first half presents all the knowledge necessary for a one semester survey of solid state physics but in greater depth than most introductory solid state physics courses The second half includes most of the important research over the past half century covering both the fundamental principles and most recent advances This new edition includes the latest developments in the treatment of strongly interacting two dimensional electrons and discusses the generalization from small to larger systems The book provides explanations in a class tested tutorial style and each chapter includes problems reviewing key concepts and calculations The updated exercises and solutions enable students to become familiar with contemporary research activities such as the electronic properties of massless fermions in graphene and topological insulators

**Introductory Solid State Physics, 2nd Edition** H. P. Myers, 2003-07-13 Assuming an elementary knowledge of quantum and statistical physics this book provides a guide to principal physical properties of condensed matter as well as the underlying theory necessary for an understanding of their origins

*Elements of Solid State Physics* H. Y. Fan, 1987 This introduction to solid state physics covers the basic problems of condensed matter amorphous or glassy solids and liquid crystals Ion lattice symmetry and its direct consequences are treated in the first chapter Following the adiabatic approximation the treatment is divided into two parts the system of ions and the system of electrons Interactions of the two systems are considered and the various properties of the solid beginning with some general considerations on structure and phase transitions are also dealt with

Solid State Physics: Singh, 2011 Solid State Physics is written as per the core module syllabus of the major universities and targets undergraduate B Sc students The book uses lecture style in explaining the concepts which would facilitate easy understanding of the concepts

The Understanding Solid State Physics Jacques Cazaux, 2016-03-23 The correlation between the microscopic composition of solids and their macroscopic electrical optical thermal properties is the goal of solid state physics This book is the deeply revised version of the French book *Initiation physique du solide exercices commentes avec rappels de cours* written more than 20 years ago It has five 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

**Elementary Solid State Physics** M. Ali Omar, 1993

**Solid State Physics** J. R. Hook, H. E. Hall, 2013-07-17 This Second Edition is aimed at students taking a first course in this subject although it will also be of interest to professional physicists and electronic engineers requiring a grasp of the fundamentals of this important area of physics Basic concepts are introduced in an easily accessible context for example wave propagation in crystals is introduced using one and two dimensional geometries Only when these basic ideas are familiar are generalisations to three dimensions and the

elegant framework of the reciprocal lattice made Extensively rewritten the Second Edition now includes new and expanded coverage of semiconductor devices the quantum Hall effect quasicrystals high temperature superconductors and techniques for the study of the surfaces of solids A chapter on dielectrics and ferroelectrics has also been added Solid State Physics Second Edition features A carefully written and structured text to help students fully understand this exciting subject A flow diagram allowing topics to be studied in different orders or omitted altogether Optional starred and highlighted sections containing more advanced and specialised material for the more ambitious reader Carefully selected problems at the end of each chapter designed to assist learning Solutions are provided at the end of the book

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