

Philip Hofmann

Solid State Physics

An Introduction

Second Edition



Solid State Physics Source

AW Chickering



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Solid-state Physics Source Book Sybil P. Parker, 1988 *Solid-state Physics Source Book*, 1987 *Guide to Sources for History of Solid State Physics* Joan Warnow-Blewett, Jürgen Teichmann, 1992 *Introduction To Solid State Physics* Amnon Aharony, Ora Entin-wohman, 2018-08-03

Written by two professors emeriti with a long and distinguished career both in research and teaching the book clearly shows the wide experience of its authors This is a good book carefully prepared full of details and appropriate for its scope Those who will profit the most from it are the students who are obliged or prefer to study independently They will appreciate the clarity of exposition and will find the numerous problems both stimulating and rewarding What sets the book apart are undoubtedly the detailed solutions to all of the problems Contemporary Physics This is an introductory book on solid state physics It is a translation of a Hebrew version written for the Open University in Israel Aimed mainly for self study the book contains appendices with the necessary background explains each calculation in detail and contains many solved problems The bulk of the book discusses the basic concepts of periodic crystals including lattice structures radiation scattering off crystals crystal bonding vibrations of crystals and electronic properties On the other hand the book also presents brief reviews of advanced topics e g quasicrystals soft condensed matter mesoscopic physics and the quantum Hall effect There are also many specific examples drawn from modern research topics e g perovskite oxides relevant for high temperature superconductivity graphene electrons in low dimensions and more

[An Analysis of Primary and Secondary Information Sources in Solid State Physics](#) Miroslav Silverio, 1969 [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 *Energy Research Abstracts*, 1993 *Solid State Physics* Augusta Lawrence, 2019-06-27 Solids are formed from densely packed atoms The interactions of these atoms are responsible for the emergence of magnetic optical thermal mechanical and electrical properties of solids Atoms in a solid can be arranged in a regular geometric pattern in a crystal or irregularly in an amorphous solid The study of all these aspects of solids is approached from the field of solid state physics It is a branch of condensed matter physics which studies solids through the methods of electromagnetism quantum mechanics crystallography and metallurgy The crystalline structure of materials is investigated using techniques of neutron diffraction X ray crystallography and electron diffraction Solid state physics also delves into the study of quasicrystals high temperature superconductivity strongly correlated materials etc It has applications in the development and use of semiconductors and transistors This textbook presents the complex subject of solid state physics in the most comprehensible manner Such selected concepts that redefine this field have been presented herein Coherent flow of topics student friendly language and extensive use of examples make this book an invaluable source of knowledge SOLID STATE PHYSICS V K BABBAR, 1997 This book presents a comprehensive introduction to Solid State Physics for undergraduate students of pure and applied sciences and engineering disciplines It acquaints the students with the fundamental properties of solids starting from their properties The coverage of basic topics is developed in terms of simple physical phenomenon supplemented with theoretical derivations and relevant models which provides strong grasp of the fundamental principles of physics in solids in a concise and self explanatory manner Solid State Physics Giuseppe Grosso (Fisico.), Giuseppe Pastori Parravicini, 2013-10-01 Solid State Physics is a textbook for students of physics material science chemistry and engineering It is the state of the art presentation of the theoretical foundations and application of the quantum structure of matter and materials This second edition provides timely coverage of the most important scientific breakthroughs of the last decade especially in low dimensional systems and quantum transport It helps build readers understanding of the newest advances in condensed matter physics with rigorous yet clear mathematics Examples are an integral part of the text carefully designed to apply the fundamental principles illustrated in the text to currently active topics of research Basic concepts and recent advances in the field are explained in tutorial style and organized in an intuitive manner The book is a basic reference work for students researchers and lecturers in any area of solid state physics Features additional material on nanostructures giving students and lecturers the most significant features of low dimensional systems with focus on carbon allotropes Offers detailed explanation of dissipative and nondissipative transport and explains the

essential aspects in a field which is commonly overlooked in textbooks Additional material in the classical and quantum Hall effect offers further aspects on magnetotransport with particular emphasis on the current profiles Gives a broad overview of the band structure of solids as well as presenting the foundations of the electronic band structure Also features reported with new and revised material which leads to the latest research

Solid State Physics Frederick Seitz, David Turnbull, 1961
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