

Solid State Physics

SECOND
EDITION

J. R. Hook & H. E. Hall



Solid State Physics 2nd Edition

J. S. Blakemore



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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

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

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

Solid State Physics Giuseppe Grosso, Giuseppe Pastori Parravicini, 2013-10-17 *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

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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

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Elements of Solid State Physics Michael Noel Rudden, John Wilson, 1980

Solid State Physics John S. Blakemore, 1982-10-01

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 Harald Ibach, Hans Lüth, 2013-04-18 Our German textbook Festkörperphysik has become rather popular among German speaking students and is currently produced in its 4th edition Its version in English has already been adopted by many universities in the United States and other countries This new 2nd edition corresponds to the 4th edition in German In addition to correcting some typographical errors and making small improvements in the presentation in the present edition some chapters have been revised or extended Panel V for example has been extended to include a description of angle resolved photoemission and its importance for the study of electronic band structures Section 10.10 on high temperature superconductors has completely been rewritten This active field of research continues to progress rapidly and many new results have emerged since the publication of the first edition These results shed new light on much of the fundamental physics The new version of Sect 10.10 has been developed in discussions with colleagues who are themselves engaged in superconductivity research We thank in particular Professor C Calandra from the University of Modena and Dr R Wordenweber of the Institute of Thin Film and Ion Technology at the Research Centre Jülich The revision of the problems was done with the help of Dr W

Elements of Solid State Physics Michael Noel Rudden, J. J. Wilson, 1980

Solid State Physics A.J. Dekker, 1958

Solid State Physics László Mihály, Michael C. Martin, 1996 The ideal supplement to the standard texts in condensed matter physics Solving homework problems is the single most effective way for students to familiarize themselves with the language and details of solid state physics Testing problem solving ability is the best means at the professor's disposal for measuring student progress at critical points in the learning process This book enables any instructor to supplement end of chapter textbook assignments with a large number of challenging and engaging practice problems and discover a host of new ideas for creating exam questions Designed to be used in tandem with any of the excellent textbooks on this subject *Solid State Physics Problems and Solutions* provides a self study approach through which advanced undergraduate and first year graduate students can develop and test their skills while acclimating themselves to the demands of the discipline Each problem has been chosen for its ability to illustrate key concepts properties and systems knowledge of which is crucial in developing a complete understanding of the subject including Crystals diffraction and reciprocal lattices Phonon dispersion and electronic band structure Density of states Transport magnetic and

optical properties Interacting electron systems And more **Condensed Matter Physics** Michael P. Marder,2010-11-17
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Introduction to Solid State Physics ... Second Edition Charles Kittel,1956 Solid State Physics David Snoke,2009

Solid-State Physics James Patterson,Bernard Bailey,2011-03-23 While the standard solid state topics are covered the basic ones often have more detailed derivations than is customary with an emphasis on crystalline solids Several recent topics are introduced as are some subjects normally included only in condensed matter physics Lattice vibrations electrons interactions and spin effects mostly in magnetism are discussed the most comprehensively Many problems are included whose level is from fill in the steps to long and challenging and the text is equipped with references and several comments about experiments with figures and tables **Solid State Physics. 2.ed** J. S. Blakemore,1974 **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

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