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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

this edition relates significant advances in the field presenting detailed explanations of nanostructures superlattices block wannier levels zener tunnelling light emitting diodes fibre optics high temperature superconductors microscopy and new magnetic materials

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 v12

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 physcsthis 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

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

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

this book provides an introduction to the field of solid state physics for undergraduate students in physics chemistry engineering and materials science

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

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

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 forms an important part of the undergraduate syllabi of physics in most of the universities the existing competing books by indian authors have too complex technical language which makes them abstractive to indian students who use english as their secondary language 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 topics have been dealt with precision and provide adequate knowledge of the subject

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

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

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 a physique du solide exercices commentes avec rappels de cours written more than 20 years ago it has five sections

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

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