

Introduction To Solid State Physics Charles Kittel

kittel s introduction to solid state physics global edition has been the standard solid state physics text for physics majors since the publication of its first edition over 60 years ago the emphasis in the book has always been on physics rather than formal mathematics this book is written with the goal that it is accessible to undergraduate students and consistently teachable with each new edition the author has attempted to add important new developments in the field without impacting its inherent content coverage this global edition offers the advantage of expanded end of chapter problem sets

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

a modern presentation of theoretical solid state physics that builds directly upon kittel s introduction to solid state physics treats phonon electron and magnon fields culminating in the bcs theory of superconductivity considers fermi surfaces and electron wave functions and develops the group theoretical description of brillouin zones applies correlation functions to time dependent effects in solids with an introduction to green s functions with 110 problems the text is well suited for the classroom or for self instruction

graduate level text covers properties of the fermi dirac and bose einstein distributions the interrelated subjects of fluctuations thermal noise and brownian movement and the thermodynamics of irreversible processes 1958 edition

using potassium as an example this work presents a unique approach to the anomalous effects in metals resulting in knowledge that can be applied to similar materials most theoretical predictions on the electric magnetic optical and thermal properties of a simple metal do surprisingly not agree with experimental behavior found in alkali metals the purpose of this volume is to document the many phenomena that have violated expectations it collects in one place the research by albert overhauser one of the pioneers of the field his and his collaborators work has led to a unified synthesis of alkali metal peculiarities the unique collection of 65 reprint papers commented where necessary to explain the context and perspective is preceded by a thorough and well paced introduction the book is meant to advanced solid state physics and science historians it might also serve as additional reading in advanced solid state physics courses with a foreword by mildred and gene dresselhaus

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