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Solid State Physics, a comprehensive study for the undergraduate and postgraduate students of pure and applied sciences, and engineering disciplines is divided into eighteen chapters. The First seven chapters deal with structure related aspects such as lattice and crystal structures, bonding, packing and diffusion of atoms followed by imperfections and lattice vibrations. Chapter eight deals mainly with experimental methods of determining structures of given materials. While the next nine chapters cover various physical properties of crystalline solids, the last chapter deals with the anisotropic properties of materials. This chapter has been added for benefit of readers to understand the crystal properties (anisotropic) in terms of some simple mathematical formulations such as tensor and matrix. New to the Second Edition: Chapter on: "Anisotropic Properties of Materials

Numerical Problems in Solid State Physics presents a collection of solved examples, unsolved review problems and multiple type of questions on different topics of Solid State Physics/Condensed Matter. The author felt the need of such a book in view of the fact of growing number of competitive examinations at various levels conducted by universities, UGC/CSIR, UPSC, etc. where the questions are generally of numerical in nature. This book contains twelve chapters on different topics of Solid State Physics/ Condensed Matter and dealt with more than seven hundred solved examples and unsolved problems. This book will be extremely helpful to the faculty members associated with the field, the students of B.Sc (H), M.Sc and B. Tech in related subjects and the students appearing in various competitive examinations.

This book aims at enhancing the understanding of topics in crystallography through solving numerical problems. Designed into nine chapters on major topics in crystallography, the book deals with more than 600 carefully selected solved examples, problems, and multiple-choice questions. Unit cell composition, construction and calculations, Miller indices, structure factor calculations, and X-ray diffraction methods are some of the many useful topics discussed in this book. Each chapter begins with a brief theoretical explanation of the topic followed by solved numerical examples for further clarity on the subject. The topic " crystallography " is interdisciplinary in nature. Its rudimentary knowledge, therefore, is essential to the beginners in physics, chemistry, mathematics, molecular biology, geology, metallurgy, and particularly materials science and mineralogy. This book also is of immense value to senior undergraduate and graduate students of physics, chemistry, and other basic sciences.

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.

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.

ESSENTIALS OF CRYSTALLOGRAPHY presents a comprehensive study of the essential aspects of crystallography. The topics include a detail discussion of geometry and symmetry of crystals, a simplified approach to derive the point groups and space groups, methods of crystal growth and related theories, imperfections in crystalline solids, various diffraction methods, procedures for solving crystal structures and computing methods in crystallography. Keeping in view the diverse nature of readers, the treatments and the mathematics used in the book have been kept as simple as possible. This book will serve as a textbook to any crystallographic course at Postgraduate and M. Phil. level. In addition, this will be helpful for all researchers in physics, chemistry, biology, mineralogy etc. who are working with crystallography related problems. NEW TO THE SECOND EDITION Chapter on " Groups, Matrices and Representation of Symmetry Operations

A Course On Crystallography Is A Necessary Beginning For All Solid State Physics Courses, Since The Student Must Have A Clear Concept Of The Crystallographic Methods And Principles Before Proceeding To Learn The Physics Of Solids. The Present Authors Have Earlier Written The Book Entitled Crystallography For The Solid State Physics (Wiley 1982). The Book Proved Very Popular With The Students And Reviewers Also Highly Commended The Book, (E.G. One Of The Reviewers Termed It As A Treasure Chest Of Knowledge In Crystallography). However, It Has Been Felt That Solid State Physics Component In The Earlier Book Was Rather Too Little In Content. The Present Book Is An Attempt To Enlarge This Content So As To Provide Solid State Portion Its Due Share. To Accomplish This Already Existing Chapters On Solid State Have Been Enlarged And Some New Chapters Have Been Added. The Book S Intended To Serve As An Introductory Text For All Graduate And Undergraduate Students Whose Eventual Aim Is To Specialise In Solid State Physics.

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