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Elementary Solid State Physics: Principles and Applications [Paperback] [1994]
(Author) M. Ali Omar M. Ali Omar. Paperback. \$961.00. Only 1 left in stock - order soon. Next. Customers who bought this item also bought. Page 1 of 1 Start over Page 1 of 1 .

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This is a well written introduction to solid state physics for the undergrad. Omar starts from the basics of lattice geometry and doesn't assume you're finished with undergraduate courses.

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Elementary solid state physics by M. Ali Omar, 1975, Addison-Wesley Pub. Co. edition, in English

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Originally compiled by Sune Marklund in January 1995 the development of the problems was further pursued by Niklas Lehto over the years to follow. A section on X-ray diffraction was added by Hans Weber in February 2000. The section is based on 'Elementary Solid State Physics' by M. Ali Omar.

Solid State Physics

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Modern Physics Lab - II List of Experiments (Any SIX of the following) Course Objectives: Illustrate the Bandgap by using the four probe and two probe method. Measuring the dielectric constant and curie temperature of the materials
Determination of ...

REFERENCE BOOKS 1 Elementary Solid State Physics M Ali ...
Solid State Physics, by Hook and Hall (2nd edition) Elementary Solid State Physics, by M. Ali Omar (out of print but used copies might be available)

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.

This comprehensive text covers the basic physics of the solid state starting at an

elementary level suitable for undergraduates but then advancing, in stages, to a graduate and advanced graduate level. In addition to treating the fundamental elastic, electrical, thermal, magnetic, structural, electronic, transport, optical, mechanical and compositional properties, we also discuss topics like superfluidity and superconductivity along with special topics such as strongly correlated systems, high-temperature superconductors, the quantum Hall effects, and graphene. Particular emphasis is given to so-called first principles calculations utilizing modern density functional theory which for many systems now allow accurate calculations of the electronic, magnetic, and thermal properties.

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

This book provides an introduction to band theory and the electronic properties of materials at a level suitable for final-year undergraduates or first-year graduate students. It sets out to provide the vocabulary and quantum-mechanical training necessary to understand the electronic, optical and structural properties of the materials met in science and technology and describes some of the experimental techniques which are used to study band structure today. In order to leave space for recent developments, the Drude model and the introduction of quantum statistics are treated synoptically. However, Bloch's theorem and two tractable limits, a very weak periodic potential and the tight-binding model, are developed rigorously and in three dimensions. Having introduced the ideas of bands, effective masses and holes, semiconductor and metals are treated in some detail, along with the newer ideas of artificial structures such as super-lattices and quantum wells, layered organic substances and oxides. Some recent 'hot topics' in research are covered, e.g. the fractional Quantum Hall Effect and nano-devices, which can be understood using the techniques developed in the book. In illustrating examples of e.g. the de Haas-van Alphen effect, the book focuses on recent experimental data, showing that the field is a vibrant and exciting one. References to many recent review articles are provided, so that the student can conduct research into a chosen topic at a deeper level. Several appendices treating topics such as phonons and crystal structure make the book self-contained introduction to the fundamentals of band theory and electronic properties in condensed matter physics today.

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