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Mechanical and thermal properties are reviewed and electrical and magnetic properties are emphasized. Basics of symmetry and internal structure of crystals and the main properties of metals, dielectrics, semiconductors, and magnetic materials are discussed. The theory and modern experimental data are presented, as well as the specifications of materials that are necessary for practical application in electronics. The modern state of research in nanophysics of metals, magnetic materials, dielectrics and semiconductors is taken into account, with particular attention to the influence of structure on the physical properties of nano-materials. The book uses simplified mathematical treatment of theories, while emphasis is placed on the basic concepts of physical phenomena in electronic materials. Most chapters are devoted to the advanced scientific and technological problems of electronic materials; in addition, some new insights into theoretical facts relevant to technical devices are presented. Electronic Materials is an essential reference for newcomers to the field of electronics, providing a fundamental understanding of important basic and advanced concepts in electronic materials science. Provides important overview of the fundamentals of electronic materials properties significant for device applications along with advanced and applied concepts essential to those working in the field of electronics Takes a simplified and mathematical approach to theories essential to the understanding of electronic materials and summarizes important takeaways at the end of each chapter Interweaves modern experimental data and research in topics such as nanophysics, nanomaterials and dielectrics

Principles of Electrical Engineering Materials and Devices has been developed to bridge the gap between traditional electronic circuits texts and semiconductor texts

Adopting a uniquely pedagogical approach, this comprehensive textbook on the quantum mechanics of semiconductor materials and devices focuses on the materials, components and devices themselves whilst incorporating a substantial amount of fundamental physics related to condensed matter theory and quantum mechanics. Written primarily for advanced undergraduate students in physics and engineering, this book can also be used as a supporting text for introductory quantum mechanics courses, and will be of interest to anyone interested in how electronic devices function at a fundamental level. Complete with numerous exercises, and with all the necessary mathematics and physics included in appendices, this book guides the reader seamlessly through the principles of quantum mechanics and the quantum theory of metals and semiconductors, before describing in detail how devices are exploited within electric circuits and in the hardware of computers, for example as amplifiers, switches and transistors.

Materials Principles and Practice deals with materials science in the technological context of making and using materials. Topics covered include the nature of materials such as crystals,

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an atomic view of solids, temperature effects on materials, and the mechanical and chemical properties of materials. This book is comprised of seven chapters and begins with an overview of the properties of different kinds of material, the ways in which materials can be shaped, and the uses to which they can be put. The next chapter describes the state of matter as a balance between the tendencies of atoms to stick together (by chemical bonding) or rattle apart (by thermal agitation), paying particular attention to ionic bonds and ionic crystals, the structure and properties of polymers, and transition metals. The reader is also introduced to how the structure of materials, especially microstructure, can be manipulated to give desired properties via thermal, mechanical, and chemical agents of change. This text concludes by describing the chemistry of processing and service of various materials. Exercises and self-assessment questions with answers are given at the end of each chapter, together with a set of objectives. This monograph will be a valuable resource for students of materials science and the physical sciences.

Basic Principles of Electronics, Volume 2: Semiconductors focuses on the properties, applications, and characteristics of semiconductors. The publication first elaborates on conduction in the solid state, conduction and heat, and semiconductors. Discussions focus on extrinsic or impurity semiconductors, electrons and holes, effect of temperature on the conductivity, mean free path, Joule heating effect, "vacancies" in crystals, and Drude's theory of metallic conduction. The text then ponders on semiconductor technology and simple devices, transistor, and transistor production and characteristics. Topics include strain gauges, thermistors, thermoelectric semiconductors, crystal preparation, photoconductors, and the Hall effect. The book elaborates on special devices, processes, and uses, common transistor circuitry, and a low-frequency equivalent circuit for common base, including radiation detection, optoelectronics, field effect transistors, sonar amplifier, oscillators, and multi-stage amplifiers. The publication is highly recommended for technical college students and researchers wanting to study semiconductors.

This book provides the knowledge and understanding necessary to comprehend the operation of individual electronic devices that are found in modern micro-electronics. As a textbook, it is aimed at the third-year undergraduate curriculum in electrical engineering, in which the physical electronic properties are used to develop an introductory understanding to the semiconductor devices used in modern micro-electronics. The emphasis of the book is on providing detailed physical insight into the microscopic mechanisms that form the cornerstone for these technologies. Mathematical treatments are therefore kept to the minimum level necessary to achieve suitable rigor. \* Covers crystalline structure \* Thorough introduction to the key principles of quantum mechanics \* Semiconductor statistics, impurities, and controlled doping \* Detailed analysis of the operation of semiconductor devices, including p-n junctions, field-effect transistors, metal-semiconductor junctions and bipolar junction transistors \* Discussion of optoelectronic devices such as light-emitting diodes (LEDs) and lasers \* Chapters on the device applications of dielectrics, magnetic materials, and superconductors

A thorough introduction to fundamental principles and applications From its beginnings in metallurgy and ceramics, materials science now encompasses such high- tech fields as microelectronics, polymers, biomaterials, and nanotechnology. Electronic Materials Science presents the fundamentals of the subject in a detailed fashion for a multidisciplinary audience. Offering a higher-level treatment than an undergraduate textbook provides, this text benefits students and practitioners not only in electronics and optical materials science, but also in additional cutting-edge fields like polymers and biomaterials. Readers with a basic

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Understanding of physical chemistry or physics will appreciate the text's sophisticated presentation of today's materials science. Instructive derivations of important formulae, usually omitted in an introductory text, are included here. This feature offers a useful glimpse into the foundations of how the discipline understands such topics as defects, phase equilibria, and mechanical properties. Additionally, concepts such as reciprocal space, electron energy band theory, and thermodynamics center the discussion earlier and in a more robust fashion than in other texts. Electronic Materials Science also features:

- \* An orientation towards industry and academia drawn from the author's experience in both arenas
- \* Information on applications in semiconductors, optoelectronics, photocells, and nanoelectronics
- \* Problem sets and important references throughout
- \* Flexibility for various pedagogical needs

Treating the subject with more depth than any other introductory text, Electronic Materials Science prepares graduate and upper-level undergraduate students for advanced topics in the discipline and gives scientists in associated disciplines a clear review of the field and its leading technologies.

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