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Electronic Materials, Materials World, June 2020, p.55 (Inst of MMM) This book covers most properties associated with metals, dielectrics, semiconductors, and magnetic materials. The chapters offer graduate level students a wide overview of issues related to materials science and, wherever possible, links are made to electrical properties, electronic devices and their development into electronic systems.

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I have used Kasap's 3rd edition of "Principles of Electronic Materials and Devices" as a course textbook for the 2nd year "Materials Physics" course (in Department of Materials Science & Engineering (MSE) at University of Toronto (UoT)). The text was very well received by all: the students, considering that a number of them had no prior ...

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Principles of Electronic Materials and Devices, Third Edition, is a greatly enhanced version of the highly successful text Principles of Electronic Materials and Devices, Second Edition. It is designed for a first course on electronic materials given in Materials Science and Engineering, Electrical Engineering, and Physics and Engineering Physics Departments at the undergraduate level. The third edition has numerous revisions that include more beautiful illustrations and photographs, additional sections, more solved problems, worked examples, and end-of-chapter problems with direct engineering applications. The revisions have improved the rigor without sacrificing the original semiquantitative approach that both the students and instructors liked and valued. Some of the new end-of-chapter problems have been especially selected to satisfy various professional engineering design requirements for accreditation across international borders. Advanced topics have been collected under Additional Topics, which are not necessary in a short introductory treatment.

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

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~~Principles of Electronic Materials and Devices~~

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

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.

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

In the real world, most signals are analog, spanning continuously varying values. Circuits that interface with the physical environment need to be able to process these signals. Principles of Analog Electronics introduces the fascinating world of analog electronics, where fields, circuits, signals and systems, and semiconductors meet. Drawing on the author's teaching experience, this richly illustrated, full-color textbook expertly blends theory with practical examples to give a clear understanding of how real electronic circuits work. Build from the Essentials of Math, Physics, and Chemistry to Electronic Components, Circuits, and Applications Building a solid foundation, the book first explains the mathematics, physics, and chemistry that are essential for

grasping the principles behind the operation of electronic devices. It then examines the theory of circuits through models and important theorems. The book describes and analyzes passive and active electronic devices, focusing on fundamental filters and common silicon-based components, including diodes, bipolar junction transistors, and metal-oxide-semiconductor field-effect transistors (MOSFETs). It also shows how semiconductor devices are used to design electronic circuits such as rectifiers, power suppliers, clamper and clipper circuits, and amplifiers. A chapter explores actual applications, from audio amplifiers and FM radios to battery chargers. Delve Deeper into Analog Electronics through Curiosities, Key Personalities, and Practical Examples Each chapter includes helpful summaries with key points, jargon, and terms, as well as exercises to test your knowledge. Practical tables illustrate the coding schemes to help identify commercial passive and active components. Throughout, sidebars highlight "curiosities," interesting observations, and examples that make the subject more concrete. This textbook offers a truly comprehensive introduction to the fundamentals of analog electronics, including essential background concepts. Taking a fresh approach, it connects electronics to its importance in daily life, from music to medicine and more.

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, 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.

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