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Semiconductors, Insulators \u0026 Conductors,

Basic Introduction, N type vs P type

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Updated to reflect recent work in the field, this book emphasizes crystalline solids, going from the crystal lattice to the ideas of reciprocal space and Brillouin zones, and develops these ideas for lattice vibrations, for the theory of metals, and for semiconductors. The theme of lattice

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periodicity and its varied consequences runs through eighty percent of the book. Other sections deal with major aspects of solid state physics controlled by other phenomena: superconductivity, dielectric and magnetic properties, and magnetic resonance.

Since overall circuit performance has depended primarily on transistor properties, previous efforts to enhance circuit and system speed were focused on transistors as well. During the last decade, however, the parasitic resistance, capacitance, and inductance associated with interconnections

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began to influence circuit performance and will be the primary factors in the evolution of nanoscale ULSI technology. Because metallic conductivity and resistance to electromigration of bulk copper (Cu) are better than aluminum, use of copper and low-k materials is now prevalent in the international microelectronics industry. As the feature size of the Cu-lines forming interconnects is scaled, resistivity of the lines increases. At the same time electromigration and stress-induced voids due to increased current density become significant reliability issues. Although

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copper/low-k technology has become fairly mature, there is no single book available on the promise and challenges of these next-generation technologies. In this book, a leader in the field describes advanced laser systems with lower radiation wavelengths, photolithography materials, and mathematical modeling approaches to address the challenges of Cu-interconnect technology.

'Sensors' is the first self-contained series to deal with the whole area of sensors. It describes general aspects, technical and physical fundamentals, construction,

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function, applications and developments of the various types of sensors. This volume presents for the first time a comprehensive description of magnetic sensors with special emphasis placed upon technical and scientific fundamentals. It provides important definitions and a unique overview of concepts, and the nature and principles of magnetic fields. General questions concerning all types of magnetic sensors, such as those pertaining to material, noise, etc. are treated. Each chapter contains physical and mathematical fundamentals and applied technical concepts. In addition, each chapter

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presents an outline of the most important applications, measurement ranges and accuracy of sensing etc. This volume is an indispensable reference work and text book for both specialists and newcomers, researcher and developers.

The objective of Solid State Physics is to introduce college seniors and first-year graduate students in physics, electrical engineering, materials science, chemistry, and related areas to this diverse and fascinating field. I have attempted to present this complex subject matter in a

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coherent, integrated manner, emphasizing fundamental scientific ideas to give the student a strong understanding and "feel" for the physics and the orders of magnitude involved. The subject is varied, covering many important, sophisticated, and practical areas, which, at first, may appear unrelated but which are actually built on the same foundation: the bonding between atoms, the periodic translational symmetry, and the resulting electron energy levels. The text is comprehensive enough so that the basics of broad areas of present research are covered, yet flexible enough so that courses of

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varying lengths can be satisfied. the exercises at the end of each chapter serve to reinforce and extend the text.

Electrical Conduction in Solid Materials (Physicochemical Bases and Possible Applications) investigates the physicochemical bases and possible applications of electrical conduction in solid materials, with emphasis on conductors, semiconductors, and insulators. Topics range from the interatomic bonds of conductors to the effective atomic charge in conventional semiconductors and magnetic transitions in

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switching semiconductors. Comprised of 10 chapters, this volume begins with a description of electrical conduction in conductors and semiconductors, metals and alloys, as well as interatomic bonds and the resistivity of magnetic conductors.

Subsequent chapters focus on conventional semiconductors, including intrinsic semiconductors and binary and ternary compounds; compounds containing ordered or disordered atomic magnetic moments, showing paramagnetism of ferro-, ferri-, or antiferromagnetism; and magnetic and crystallographic transitions in switching

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semiconductors. Organic and inorganic insulators are also considered, along with possible applications of conductors, semiconductors, and insulators. Finally, the special magnetoelectric effects and magneto-optical effects of magnetic semiconductors are analyzed. This book will be a valuable resource for students of physical chemistry.

Hall Effect Devices: Magnetic Sensors and Characterization of Semiconductors focuses on electron devices whose principle of operation is based on the classical Hall effect, and are used mainly as magnetic sensors and as

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means for characterizing semiconductors. Examples of these devices include Hall plates, magnetotransistors, and magnetodiodes. The book provides a self-contained description of the galvanomagnetic phenomena and modern device physics of Hall elements and related devices. It discusses the main concepts and physical principles of interface electronics, and carefully selected examples illustrate the arguments and provide a picture of the state of the art. The book also covers advances in the field, in particular the most important developments inspired by the progress in microelectronics.

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Hall Effect Devices serves as a useful reference for postgraduate engineers and scientists involved in the research and development of magnetic sensors as well as for those who apply the Hall effect as a means of exploring the basic electronic properties of solids or for characterizing semiconductor materials.

The invention of semiconductor devices is a fairly recent one, considering classical time scales in human life. The bipolar transistor was announced in 1947, and the MOS transistor, in a practically usable manner,

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was demonstrated in 1960. From these beginnings the semiconductor device field has grown rapidly. The first integrated circuits, which contained just a few devices, became commercially available in the early 1960s. Immediately thereafter an evolution has taken place so that today, less than 25 years later, the manufacture of integrated circuits with over 400.000 devices per single chip is possible. Coincident with the growth in semiconductor device development, the literature concerning semiconductor device and technology issues has literally exploded. In the last decade about 50.000 papers have

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been published on these subjects. The advent of so called Very-Large-Scale-Integration (VLSI) has certainly revealed the need for a better understanding of basic device behavior. The miniaturization of the single transistor, which is the major prerequisite for VLSI, nearly led to a breakdown of the classical models of semiconductor devices.

While measuring the effectiveness of solar cell materials may not always be practical once a device has been created, solar cell modeling may allow researchers to obtain prospective analyses of the internal

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processes of potential materials prior to their manufacture. Advanced Solar Cell Materials, Technology, Modeling, and Simulation discusses the development and use of modern solar cells made from composite materials. This volume is targeted toward experts from universities and research organizations, as well as young professionals interested in pursuing different subjects regarding advanced solar cells.

This book includes within its scope studies of the structural, electrical, optical and acoustical properties of bulk, low-

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dimensional and amorphous semiconductors; computational semiconductor physics; interface properties, including the physics and chemistry of heterojunctions, metal-semiconductor and insulator-semiconductor junctions; all multi-layered structures involving semiconductor components. Dopant incorporation. Growth and preparation of materials, including both epitaxial (e.g. molecular beam and chemical vapour methods) and bulk techniques; in situ monitoring of epitaxial growth processes, also included are appropriate aspects of surface science such as the influence of growth kinetics and

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chemical processing on layer and device properties. The physics of semiconductor electronic and optoelectronic devices are examined , including theoretical modelling and experimental demonstration; all aspects of the technology of semiconductor device and circuit fabrication. Relevant areas of 'molecular electronics' and semiconductor structures incorporating Langmuir- Blodgett films; resists, lithography and metallisation where they are concerned with the definition of small geometry structure. The structural, electrical and optical characterisation of materials and device structures are also

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included. The scope encompasses materials and device reliability: reliability evaluation of technologies; failure analysis and advanced analysis techniques such as SEM, E-beam, optical emission microscopy, acoustic microscopy techniques; liquid crystal techniques; noise measurement, reliability prediction and simulation; reliability indicators; failure mechanisms, including charge migration, trapping, oxide breakdown, hot carrier effects, electro-migration, stress migration; package- related failure mechanisms; effects of operational and environmental stresses on reliability.

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