

Semiconductor Physics And Devices Basic Principles 4th Edition

SEMICONDUCTOR PHYSICS AND DEVICES- BASIC PRINCIPLES Thin Film Physics
And Devices: Fundamental Mechanism, Materials And Applications For Thin
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a semiconductor is defined as a material with electrical conductivity that lies

between that of insulators and metals one of its key characteristics is the band gap which represents a range of energy levels that are not allowed within the material's electronic structure generally semiconductors possess band gaps between 1 and 4 eV whereas insulators exhibit larger band gaps typically exceeding 5 eV at room temperature approximately 300 K the thermal energy available is around 25 meV

thin films have an extremely broad range of applications from electronics and optics to new materials and devices collaborative and multidisciplinary efforts from physicists materials scientists engineers and others have established and advanced a field with key pillars constituting i the synthesis and processing of thin films ii the understanding of physical properties in relation to the nanometer scale iii the design and fabrication of nano devices or devices with thin film materials as building blocks and iv the design and construction of novel tools for characterization of thin films against the backdrop of the increasingly interdisciplinary field this book sets off to inform the basics of thin film physics and thin film devices readers are systematically introduced to the synthesis processing and application of thin films they will also study the formation of thin films their structure and defects and their various properties mechanical electrical semiconducting magnetic and superconducting with a primary focus on inorganic thin film materials the book also ventures on organic materials such as self assembled monolayers and langmuir blodgett films this book will be effective as a teaching or reference material in the various disciplines ranging from materials science and engineering electronic science and engineering electronic materials and components semiconductor physics and devices to applied physics and more the original chinese publication has been instrumental in this purpose across many chinese universities and colleges

semiconductor physics and devices basic principles second edition provides the fundamentals necessary to understand semiconductor device characteristics operations and limitations neamen's book reveals the fundamentals by establishing for the student a sound understanding of quantum mechanics and an introduction to the quantum theory of solids this background permits the student to develop a deeper understanding of how essential physics semiconductor material physics and semiconductor device physics interrelate espousing neither the intuitive approach of many textbooks nor the highly technical characteristics of handbooks semiconductor physics and devices basic principles provides students with a resource that is engaging and understandable and instructors with a textbook that offers teachability without sacrificing technical exactitude

this introductory text designed for the first course in semiconductor physics presents a well balanced coverage of semiconductor physics and device operation and shows how devices are optimized for applications the text begins with an exploration of the basic physical processes upon which all semiconductor devices diodes transistor light emitters and detectors are based topics such as

bandstructure effective masses holes doping carrier transport and lifetimes are discussed next the author focuses on the operation of the important semiconductor devices along with issues relating to the optimization of device performance issues such as how doping device dimensions and parasitic effects influence device operation are also included the book is appropriate for the following courses device physics semiconductor devices device electronics physics of semiconductor devices integrated circuit devices device electronics solid state devices

fundamentals of electric engineering

electronic and photonic materials discussed in this handbook are the key elements of continued scientific and technological advances in the 21st century the electronic and photonic materials comprising this handbook include semiconductors superconductors ferroelectrics liquid crystals conducting polymers organic and superconductors conductors nonlinear optical and optoelectronic materials electrochromic materials laser materials photoconductors photovoltaic and electroluminescent materials dielectric materials nanostructured materials supramolecular and self assemblies silicon and glasses photosynthetic and respiratory proteins etc etc some of these materials have already been used and will be the most important components of the semiconductor and photonic industries computers internet information processing and storage telecommunications satellite communications integrated circuits photocopiers solar cells batteries light emitting diodes liquid crystal displays magneto optic memories audio and video systems recordable compact discs video cameras x ray technology color imaging printing flat panel displays optical waveguides cable televisions computer chips molecular sized transistors and switches as well as other emerging cutting edge technologies electronic and photonic materials are expected to grow to a trillion dollar industry in the new millennium and will be the most dominating forces in the emerging new technologies in the fields of science and engineering this handbook is a unique source of the in depth knowledge of synthesis processing fabrication spectroscopy physical properties and applications of electronic and photonic materials covering everything for today s and developing future technologies this handbook consists of over one hundred state of the art review chapters written by more than 200 world leading experts from 25 different countries with more than 23 000 bibliographic citations and several thousands of figures tables photographs chemical structures and equations this handbook is an invaluable major reference source for scientists and students working in the field of materials science solid state physics chemistry electrical and optical engineering polymer science device engineering and computational engineering photophysics data storage and information technology and technocrats everyone who is involved in science and engineering of electronic and photonic materials key features this is the first handbook ever published on electronic and photonic materials 10 volumes summarize the advances in electronic and photonic materials made over past the

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