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the work provides fundamental expertise of quantum optics and photonic quantum technology with particular attention to the generation of non classical light with semiconductor nanostructures the book is written by experimentalists for experimentalists at various career stages physics and engineering students researchers in quantum optics industry experts in quantum technology a didactical structure is followed having in each chapter overview and summary of the discussed topics allowing for a quick consultation the book covers basics of quantum optics spectroscopy time resolved measurements quantum optics techniques principles of non classical light emission excitation of semiconductor

nanostuctures and their manipulation growth and nanofabrication of devices targeting physics and quantum engineering students as well as research scientists and engineers in academia and industry it provides the practical base for understanding quantum light sources and for evaluating their performances thus it enables readers to gain the necessary knowledge to understand design and test novel quantum light sources for various implementations as quantum key distribution quantum repeaters quantum sensors and photonic quantum information processing

the exponential increase of the internet of things iots has revolutionized lives but it has also resulted in massive resource consumption and environmental pollution in conjunction with green iots giots there is a parallel effort to create highly sensitive devices by device design to conserve power furthermore numerous applications require deciphering information from very weak optical signals such as from radiation medical imaging industrial non destructive testing quantum technologies astronomy and various other such routine measurements it is necessary to design photodetectors with high photosensitivity using various technological innovations to reduce the noise level such as with two inversely directed barriers as proposed by the authors in which the currents of devices mutually compensate each other and create low dark current with high photosensitivity thresholds the implementation of internal amplification of photocurrents in them can provide high photosensitivity the book presents the mechanism for the injection amplification of the photocurrent in devices based on cadmium telluride and silicon with a high resistance sublayer as well as the study of creating highly sensitive devices that are resistant to radiation of optical and x ray ranges of electromagnetic waves particular attention is drawn to the mutual compensation process for photocurrents arising in opposite potential barriers covering the layer during longitudinal absorption of radiation in the sublayer using structures on the base cadmium telluride and silicon as an example the phenomenon of a change in the sign of the spectral photocurrent and the possibilities of wave measurement is provided by this phenomenon photoelectronic processes occurring in these semiconductor structures are investigated and expressions are obtained that relate the parameters of optical radiation and the structure the algorithm developed using these expressions is based on a new spectral analysis mechanism which is implemented to prepare inexpensive reduced dimensions with the need for less materials and energy intensive devices all this is considered in the context of solving urgent problems of quantitative remote identification of the components of an optically transparent medium the global spectral analysis market is focused on the development of semiconductor photodetectors with spectral selective sensitivity for spectral analysis the use of such a photodetector in spectrometry will eliminate the use of opticalmechanical systems due to the new physical principle used in it and will ensure high resolution and reliability of spectrum recording as environmental threats become increasingly unpredictable there is also a growing need to develop remote spectral analysis identification and assessment of substances in air water and food assessment of the effects of substances on humans animals and vegetation and detection and elimination of pollution sources here the spectral analysis of the electromagnetic radiation transmitting the information from the object with the help of primary sensors is essential

essentials of semiconductor device physics an introductory semiconductor device physics textbook that is accessible to readers without a background in statistical physics i wish this book had been available when i needed to make a semiconductor class myself a few years

ago a very nice aspect is that some concepts e.g density of states are explained in a way that i have not seen elsewhere these types of unconventional approaches are very valuable for a teacher bjorn maes university of mons belgium the author offers an accessible description of statistical analysis and adopts it to explain the core properties of semiconductors he uses interesting metaphors and analogies to exemplify some of the most difficult notions in an innovative and engaging way andrea di falco university of st andrews uk the subject of this book is the physics of semiconductor devices which is an important topic in engineering and physics because it forms the background for electronic and optoelectronic devices including solar cells the author aims to provide students and teachers with a concise text that focuses on semiconductor devices and covers the necessary background in statistical physics this text introduces the key prerequisite knowledge in a simple clear and friendly manner it distills the key concepts of semiconductor devices down to their essentials enabling students to master this key subject in engineering physics and materials the subject matter treated in this book is directly connected to the physics of p n junctions and solar cells which has become a topic of intense interest in the last decade sample topics covered within the text include chemical potential fermi level fermi dirac distribution drift current and diffusion current the physics of semiconductors band theory and intuitive derivations of the concentration of charge carriers the p n junction with qualitative analysis preceding the mathematical descriptions a derivation of the current vs voltage relation in p n junctions shockley equation important applications of p n junctions including solar cells the two main types of transistors bipolar junction transistors bjt and metal oxide semiconductor field effect transistors mosfet for students and instructors it may be used as a primary textbook for an introductory semiconductor device physics course and is suitable for a course of approximately 30 50 hours scientists studying and researching semiconductor devices in general and solar cells in particular will also benefit from the clear and intuitive explanations found in this book

electronic devices based on oxide semiconductors are the focus of much attention with crystalline materials generating huge commercial success indium gallium zinc oxide igzo transistors have a higher mobility than amorphous silicon transistors and an extremely low off state current c axis aligned crystalline caac igzo enables aggressive down scaling high reliability and process simplification of transistors in displays and lsi devices this original book introduces the caac igzo structure and describes the physics and technology of this new class of oxide materials it explains the crystallographic classification and characteristics of crystalline oxide semiconductors their crystallographic characteristics and physical properties and how this unique material has made a major contribution to the field of oxide semiconductor thin films two further books in this series describe applications of caac igzo in flat panel displays and lsi devices key features introduces the unique and revolutionary yet relatively unknown crystalline oxide semiconductor caac igzo presents crystallographic overviews of igzo and related compounds offers an in depth understanding of caac igzo explains the fabrication method of caac igzo thin films presents the physical properties and latest data to support high reliability crystalline igzo based on hands on experience describes the manufacturing process the caac igzo transistors and introduces the device application using caac igzo

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have been the backbone of numerous different fields electronics online commerce the information and communication industry and the defense industry for over fifty years silicon technology and cmos scaling have been the central focus and primary driver of innovation in the semiconductor industry traditional cmos scaling has approached some fundamental limits and as a result the pace of scientific research and discovery for novel semiconductor technologies is increasing with a focus on novel materials devices designs architectures and computer paradigms in particular new computing paradigms and systems such as quantum computing artificial intelligence and internet of things have the potential to unlock unprecedented power and application space advances in semiconductor technologies provides a comprehensive overview of selected semiconductor technologies and the most up to date research topics looking in particular at mainstream developments in current industry research and development from emerging materials and devices to new computing paradigms and applications this full coverage volume gives the reader valuable insights into state of the art advances currently being fabricated a wide range of novel applications currently under investigation and a glance into the future with emerging technologies in development advances in semiconductor technologies readers will also find a comprehensive approach that ensures a thorough understanding of state of the art technologies currently being fabricated treatments on all aspects of semiconductor technologies including materials devices manufacturing modeling design architecture and applications articles written by an impressive team of international academics and industry insiders that provide unique insights into a wide range of topics advances in semiconductor technologies is a useful time saving reference for electrical engineers working in industry and research who are looking to stay abreast of rapidly advancing developments in semiconductor electronics as well as academics in the field and government policy advisors

the new edition of the most detailed and comprehensive single volume reference on major semiconductor devices the fourth edition of physics of semiconductor devices remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar unipolar special microwave and optoelectronic devices this fully updated and expanded edition includes approximately 1 000 references to original research papers and review articles more than 650 high quality technical illustrations and over two dozen tables of material parameters divided into five parts the text first provides a summary of semiconductor properties covering energy band carrier concentration and transport properties the second part surveys the basic building blocks of semiconductor devices including p n junctions metal semiconductor contacts and metal insulator semiconductor mis capacitors part iii examines bipolar transistors mosfets mos field effect transistors and other field effect transistors such as jfets junction field effect transistors and mesfets metal semiconductor field effect transistors part iv focuses on negative resistance and power devices the book concludes with coverage of photonic devices and sensors including light emitting diodes leds solar cells and various photodetectors and semiconductor sensors this classic volume the standard textbook and reference in the field of semiconductor devices provides the practical foundation necessary for understanding the devices currently in use and evaluating the performance and limitations of future devices offers completely updated and revised information that reflects advances in device concepts performance and application features discussions of topics of contemporary interest such as applications of photonic devices that convert optical energy to electric energy includes numerous problem sets real world examples tables figures and illustrations several useful appendices

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amorphous semiconductors are substances in the amorphous solid state that have the properties of a semiconductor and which are either covalent or tetrahedrally bonded amorphous semiconductors or chalcogenide glasses developed from both a theoretical and

experimental viewpoint deals with amongst others preparation techniques structural optical and electronic properties and light induced phenomena explores different types of amorphous semiconductors including amorphous silicon amorphous semiconducting oxides and chalcogenide glasses applications include solar cells thin film transistors sensors optical memory devices and flat screen devices including televisions

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this book starts with background concerning three dimensional integration including their low energy consumption and high speed image processing and then proceeds to how to construct them and which materials to use in particular situations the book covers numerous applications including next generation smart phones driving assistance systems capsule endoscopes homing missiles and many others the book concludes with recent progress and developments in three dimensional packaging as well as future prospects

this book provides a methodological understanding of the theoretical and technical limitations to the longevity of moore s law the book presents research on factors that have significant impact on the future of moore s law and those factors believed to sustain the trend of the last five decades research findings show that boundaries of moore s law primarily include physical restrictions of scaling electronic components to levels beyond that of ordinary manufacturing principles and approaching the bounds of physics the research presented in this book provides essential background and knowledge to grasp the following principles traditional and modern photolithography the primary limiting factor of moore s law innovations in semiconductor manufacturing that makes current generation cmos processing possible multi disciplinary technologies that could drive moore s law forward significantly design principles for microelectronic circuits and components that take advantage of technology miniaturization the semiconductor industry economic market trends and technical driving factors the complexity and cost associated with technology scaling have compelled researchers in the disciplines of engineering and physics to optimize previous generation nodes to improve system on chip performance this is especially relevant to participate in the increased attractiveness of the internet of things iot this book additionally provides scholarly and practical examples of principles in microelectronic circuit design and layout to mitigate technology limits of previous generation nodes readers are encouraged to intellectually apply the knowledge derived from this book to further research and innovation in prolonging moore s law and associated principles

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