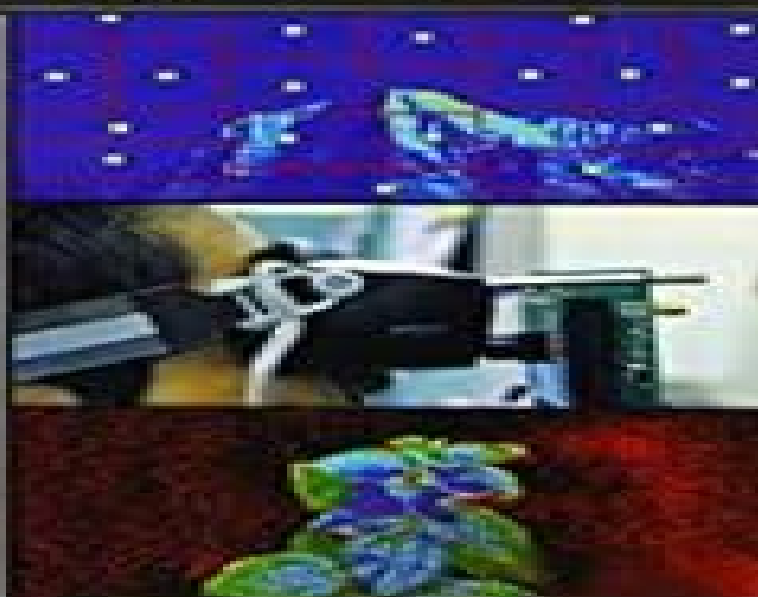


OPTICAL IMAGING DEVICES

New Technologies and Applications



EDITED BY **AJIT KHOSLA • DONGSOO KIM**



CRC Press
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Optical Imaging Devices New Technologies And Applications Devices Circuits And Systems

Angelo Rivetti



Optical Imaging Devices New Technologies And Applications Devices Circuits And Systems:

Optical Imaging Devices Ajit Khosla, Dongsoo Kim, 2017-12-19 *Optical Imaging Devices New Technologies and Applications* delivers a comprehensive introduction to optical imaging and sensing from devices to system level applications Drawing upon the extensive academic and industrial experience of its prestigious editors and renowned chapter authors this authoritative text Explains the physical principles of optical imaging and sensing Covers topics such as silicon based imaging characteristics nanophotonic phased arrays thin film sensors label free DNA sensors and in vivo flow cytometry Presents the contributions of leading researchers real world examples from biomedicine recommendations for further reading and all measurements in SI units *Optical Imaging Devices New Technologies and Applications* provides an essential understanding of the design operation and practical applications of optical imaging and sensing systems making it a handy reference for students and practitioners alike

Optical Fiber Sensors Ginu Rajan, 2017-12-19 *Optical Fiber Sensors Advanced Techniques and Applications* describes the physical principles of and latest developments in optical fiber sensors Providing a fundamental understanding of the design operation and practical applications of fiber optic sensing systems this book Discusses new and emerging areas of research including photonic crystal fiber sensors micro and nanofiber sensing liquid crystal photonics acousto optic effects in fiber and fiber laser based sensing Covers well established areas such as surface plasmon resonance sensors interferometric fiber sensors polymer fiber sensors Bragg gratings in polymer and silica fibers and distributed fiber sensors Explores humidity sensing applications smart structure applications and medical applications supplying detailed examples of the various fiber optic sensing technologies in use *Optical Fiber Sensors Advanced Techniques and Applications* draws upon the extensive academic and industrial experience of its contributing authors to deliver a comprehensive introduction to optical fiber sensors with a strong practical focus suitable for undergraduate and graduate students as well as scientists and engineers working in the field

Circuits and Systems for Security and Privacy Farhana Sheikh, Leonel Sousa, 2017-12-19 *Circuits and Systems for Security and Privacy* begins by introducing the basic theoretical concepts and arithmetic used in algorithms for security and cryptography and by reviewing the fundamental building blocks of cryptographic systems It then analyzes the advantages and disadvantages of real world implementations that not only optimize power area and throughput but also resist side channel attacks Merging the perspectives of experts from industry and academia the book provides valuable insight and necessary background for the design of security aware circuits and systems as well as efficient accelerators used in security applications

Wireless Transceiver Circuits Woogeun Rhee, 2018-09-03 Modern transceiver systems require diversified design aspects as various radio and sensor applications have emerged Choosing the right architecture and understanding interference and linearity issues are important for multi standard cellular transceivers and software defined radios A millimeter wave complementary metal oxide semiconductor CMOS transceiver design for multi Gb/s data transmission is another challenging area Energy efficient short range radios for

body area networks and sensor networks have recently received great attention To meet different design requirements gaining good system perspectives is important **Wireless Transceiver Circuits System Perspectives and Design Aspects** offers an in depth look at integrated circuit IC design for modern transceiver circuits and wireless systems Ranging in scope from system perspectives to practical circuit design for emerging wireless applications this cutting edge book Provides system design considerations in modern transceiver design Covers both systems and circuits for the millimeter wave transceiver design Introduces four energy efficient short range radios for biomedical and wireless connectivity applications Emphasizes key building blocks in modern transceivers and transmitters including frequency synthesizers and digital intensive phase modulators Featuring contributions from renowned international experts in industry and academia **Wireless Transceiver Circuits System Perspectives and Design Aspects** makes an ideal reference for engineers and researchers in the area of wireless systems and circuits

Solid-State Radiation Detectors Salah Awadalla, 2017-12-19 Integrating aspects of engineering application physics and medical science **Solid State Radiation Detectors Technology and Applications** offers a comprehensive review of new and emerging solid state materials based technologies for radiation detection Each chapter is structured to address the current advantages and challenges of each material and technology presented as well as to discuss novel research and applications Featuring contributions from leading experts in industry and academia this authoritative text Covers modern semiconductors used for radiation monitoring Examines CdZnTe and CdTe technology for imaging applications including three dimensional capability detectors Highlights interconnect technology for current pixel detectors Describes hybrid pixel detectors and their characterizations Tackles the integrated analog signal processing read out front ends for particle detectors Considers new organic materials with direct bandgap for direct energy detection Summarizes recent developments involving lanthanum halide and cerium bromide scintillators Analyzes the potential of recent progress in the field of crystallogenesis quantum dots and photonics crystals toward a new concept of x and gamma ray detectors based on metamaterials Explores position sensitivity photomultipliers and silicon photomultipliers for scintillation crystals **Solid State Radiation Detectors Technology and Applications** provides a valuable reference for engineers and scientists looking to enhance the performance of radiation detector technology for medical imaging and other applications

Cell and Material Interface Nihal Engin Vrana, 2018-09-03 A significant portion of biomedical applications necessitates the establishment of an interface between the cells of the patient and the components of the device In many cases such as in implants and engineered tissues the interaction of the cells with the biomaterial is one of the main determinants of the success of the system **Cell and Material Interface Advances in Tissue Engineering Biosensor Implant and Imaging Technologies** explores this interaction and its control at length scales ranging from the nano to the macro Featuring contributions from leading molecular biologists chemists and material scientists this authoritative reference Presents practical examples of cell and material interface based applications Reflects the interdisciplinary nature of bioengineering

covering topics such as biosensing immunology and controlled delivery Explains the role of the cell and material interface in the context of cardiac and skin tissue engineering nanoparticles natural polymers and more Cell and Material Interface Advances in Tissue Engineering Biosensor Implant and Imaging Technologies addresses concepts essential to biomaterial production methods and cell and material interactions The book provides a solid starting point for elucidating and exploiting the different aspects of cellular interactions with materials for biomedical engineering *Laser-Based Optical Detection of Explosives* Paul M. Pellegrino, Ellen L. Holthoff, Mikella E. Farrell, 2018-09-03 Laser Based Optical Detection of Explosives offers a comprehensive review of past present and emerging laser based methods for the detection of a variety of explosives This book Considers laser propagation safety and explains standard test material preparation for standoff optical based detection system evaluation Explores explosives detection using deep ultraviolet native fluorescence Raman spectroscopy laser induced breakdown spectroscopy reflectometry and hyperspectral imaging Examines photodissociation followed by laser induced fluorescence photothermal methods cavity enhanced absorption spectrometry and short pulse laser based techniques Describes the detection and recognition of explosives using terahertz frequency spectroscopic techniques Each chapter is authored by a leading expert on the respective technology and is structured to supply historical perspective address current advantages and challenges and discuss novel research and applications Readers are left with an in depth understanding and appreciation of each technology s capabilities and potential for standoff hazard detection *Organic Solar Cells* Qiquan Qiao, 2017-12-19 Current energy consumption mainly depends on fossil fuels that are limited and can cause environmental issues such as greenhouse gas emissions and global warming These factors have stimulated the search for alternate clean and renewable energy sources Solar cells are some of the most promising clean and readily available energy sources Plus the successful utilization of solar energy can help reduce the dependence on fossil fuels Recently organic solar cells have gained extensive attention as a next generation photovoltaic technology due to their light weight mechanical flexibility and solution based cost effective processing *Organic Solar Cells Materials Devices Interfaces and Modeling* provides an in depth understanding of the current state of the art of organic solar cell technology Encompassing the full spectrum of organic solar cell materials modeling and simulation and device physics and engineering this comprehensive text Discusses active layer interfacial and transparent electrode materials Explains how to relate synthesis parameters to morphology of the photoactive layer using molecular dynamics simulations Offers insight into coupling morphology and interfaces with charge transport in organic solar cells Explores photoexcited carrier dynamics defect states interface engineering and nanophase separation Covers inorganic organic hybrids tandem structure and graphene based polymer solar cells *Organic Solar Cells Materials Devices Interfaces and Modeling* makes an ideal reference for scientists and engineers as well as researchers and students entering the field from broad disciplines including chemistry material science and engineering physics nanotechnology nanoscience and electrical engineering **Soft Errors** Jean-Luc Autran, Daniela

Munteanu,2017-12-19 Soft errors are a multifaceted issue at the crossroads of applied physics and engineering sciences Soft errors are by nature multiscale and multiphysics problems that combine not only nuclear and semiconductor physics material sciences circuit design and chip architecture and operation but also cosmic ray physics natural radioactivity issues particle detection and related instrumentation Soft Errors From Particles to Circuits addresses the problem of soft errors in digital integrated circuits subjected to the terrestrial natural radiation environment one of the most important primary limits for modern digital electronic reliability Covering the fundamentals of soft errors as well as engineering considerations and technological aspects this robust text Discusses the basics of the natural radiation environment particle interactions with matter and soft error mechanisms Details instrumentation developments in the fields of environment characterization particle detection and real time and accelerated tests Describes the latest computational developments modeling and simulation strategies for the soft error rate estimation in digital circuits Explores trends for future technological nodes and emerging devices Soft Errors From Particles to Circuits presents the state of the art of this complex subject providing comprehensive knowledge of the complete chain of the physics of soft errors The book makes an ideal text for introductory graduate level courses offers academic researchers a specialized overview and serves as a practical guide for semiconductor industry engineers or application engineers Introduction to Smart eHealth and eCare Technologies Sari

Merilampi,Andrew Sirkka,2016-11-18 Enables decision makers to evaluate the impact of technology introduction on process efficiency cost savings and health and care quality improvements Presents real world implementations case studies and field trials Contains contributions from experts in industry the public sector and academia Provides an extensive overview of the current situation and future trends in well being technology **CMOS** Angelo Rivetti,2018-09-03 CMOS Front End

Electronics for Radiation Sensors offers a comprehensive introduction to integrated front end electronics for radiation detectors focusing on devices that capture individual particles or photons and are used in nuclear and high energy physics space instrumentation medical physics homeland security and related fields Emphasizing practical design and implementation this book Covers the fundamental principles of signal processing for radiation detectors Discusses the relevant analog building blocks used in the front end electronics Employs systematically weak and moderate inversion regimes in circuit analysis Makes complex topics such as noise and circuit weighting functions more accessible Includes numerical examples where appropriate CMOS Front End Electronics for Radiation Sensors provides specialized knowledge previously obtained only through the study of multiple technical and scientific papers It is an ideal text for students of physics and electronics engineering as well as a useful reference for experienced practitioners Radiation Detection Systems Krzysztof Iniewski,Jan S. Iwanczyk,2021-11-05 The advances in semiconductor detectors scintillators photodetectors such as silicon photomultipliers SiPM and readout electronics have experienced tremendous growth in recent years in terms of basic technologies and variety of applications The second edition of the book Radiation Detection Systems presents variety

of radiation detection systems giving readers a broad view of the state of the art in the design of detectors front end electronics and systems offering optimized choices of the detection tools for a particular application The new edition has been divided into two volumes This first volume on Sensor Materials Systems Technology and Characterization Measurements puts emphasis on sensor materials detector structures front electronics technology and their designs as well as system optimization for different applications Also the book include characterization measurements of the developed detection systems Featuring contributions from leading experts and pioneers in their respective fields this book describes progress in growth technologies of cadmium zinc telluride CdZnTe and cadmium telluride CdTe materials shows variety of specific detector structure designs and their integration with front end amplification processing electronics presents detection systems based on CdZnTe and CdTe detector technologies that are optimized for specific applications The designed systems are characterized in terms of their spectral responses spatial and timing resolutions addresses incomplete charge collection pulse pileup charge sharing between neighboring detector pixels and other phenomena that can degrade the spectral response of photon counting detectors reports new developments of silicon photomultipliers used for reading the light from scintillators that starting to make a big impact particularly in the design concepts of novel medical instrumentation With its combined coverage of new materials and innovative new system approaches as well as a succinct overview of recent developments this book is an invaluable tool for any engineer professional or student working in electronics or an associated field Readers can refer to the second book to get a detailed understanding of more specific applications of the detection systems in medical imaging industrial testing and security applications

Advances in Imaging and Sensing Shuo Tang, Daryoosh Saeedkia, 2016-10-26 This introductory yet in depth book explains the physical principles of electronic imaging and sensing and provides the reader with the information necessary to understand the design operation and practical applications of contemporary electronic imaging and sensing systems The text has strong practical focus and contains examples of biomedical applications of optical electronic imaging and sensing Each chapter draws upon the authors extensive research teaching and industrial experience and provides a useful resource for undergraduate and graduate students as well as a convenient reference for scientists and engineers working in the field of electronic imaging and sensing

Radiation Detectors for Medical Imaging Jan S. Iwanczyk, 2015-10-16 Radiation Detectors for Medical Imaging discusses the current state of the art and future prospects of photon counting detectors for medical imaging applications Featuring contributions from leading experts and pioneers in their respective fields this book Describes x ray spectral imaging detectors based on cadmium zinc telluride CdZnTe and cad

Terahertz Devices, Circuits and Systems Sudipta Das, Anveshkumar Nella, Shobhit K. Patel, 2022-09-26 This book is aimed to bring the emerging application aspects of THz technology and various modules used for its successful realization It gathers scientific technological novelties and advancements already developed or under development in the academic and research communities This book focuses on

recent advances different research issues in terahertz technology and would also seek out theoretical methodological well established and validated empirical work dealing with these different topics In particular this textbook covers design considerations and current trends of THz antennas and antenna arrays to deal with the transmission and reception of THz EM waves It also presents a discussion on metamaterial structures meta surfaces and absorbers to be used for some kind of sensing and detection applications Furthermore it reports on THz wireless communication aspects 6G network issues and challenges advantages and disadvantages generation and detection of THz waves Signal and Communication Processing for THz communication reconfigurable low noise amplifier LNA design III Nitride HEMTs for THz Applications photonic crystal fiber for sensing applications THz Design Variable Estimation by Deep Optimization and THz Imaging issues Once the readers finish studying this book then they will learn about the importance of THz technology advancement in the field applications THz modules like antennas MIMO and DRAs communication aspects LNAs generation of THz waves etc and future scope It also leads to enhancement in their knowledge in THz technology gives a platform to future technology and novel applications realization

Reconfigurable Logic Pierre-Emmanuel Gaillardon, 2018-09-03 During the last three decades reconfigurable logic has been growing steadily and can now be found in many different fields Field programmable gate arrays FPGAs are one of the most famous architecture families of reconfigurable devices FPGAs can be seen as arrays of logic units that can be reconfigured to realize any digital systems Their high versatility has enabled designers to drastically reduce time to market and made FPGAs suitable for prototyping or small production series in many branches of industrial products In addition and thanks to innovations at the architecture level FPGAs are now conquering segments of mass markets such as mobile communications Reconfigurable Logic Architecture Tools and Applications offers a snapshot of the state of the art of reconfigurable logic systems Covering a broad range of architectures tools and applications this book Explores classical FPGA architectures and their supporting tools Evaluates recent proposals related to FPGA architectures including the use of network on chips NoCs Examines reconfigurable processors that merge concepts borrowed from the reconfigurable domain into processor design Exploits FPGAs for high performance systems efficient error correction codes and high bandwidth network routers with built in security Expounds on emerging technologies to enhance FPGA architectures improve routing structures and create non volatile configuration flip flops Reconfigurable Logic Architecture Tools and Applications reviews current trends in reconfigurable platforms providing valuable insight into the future potential of reconfigurable systems

Electrostatic Discharge Protection Juin J. Liou, 2017-12-19 Electrostatic discharge ESD is one of the most prevalent threats to electronic components In an ESD event a finite amount of charge is transferred from one object i e human body to another i e microchip This process can result in a very high current passing through the microchip within a very short period of time Thus more than 35 percent of single event chip damages can be attributed to ESD events and designing ESD structures to protect integrated circuits against the ESD stresses is a high priority in the semiconductor

industry Electrostatic Discharge Protection Advances and Applications delivers timely coverage of component and system level ESD protection for semiconductor devices and integrated circuits Bringing together contributions from internationally respected researchers and engineers with expertise in ESD design optimization modeling simulation and characterization this book bridges the gap between theory and practice to offer valuable insight into the state of the art of ESD protection Amply illustrated with tables figures and case studies the text Instills a deeper understanding of ESD events and ESD protection design principles Examines vital processes including Si CMOS Si BCD Si SOI and GaN technologies Addresses important aspects pertinent to the modeling and simulation of ESD protection solutions Electrostatic Discharge Protection Advances and Applications provides a single source for cutting edge information vital to the research and development of effective robust ESD protection solutions for semiconductor devices and integrated circuits Mixed-Signal Circuits

Thomas Noulis, 2018-09-03 Mixed Signal Circuits offers a thoroughly modern treatment of integrated circuit design in the context of mixed signal applications Featuring chapters authored by leading experts from industry and academia this book Discusses signal integrity and large scale simulation verification and testing Demonstrates advanced design techniques that enable digital circuits and sensitive analog circuits to coexist without any compromise Describes the process technology needed to address the performance challenges associated with developing complex mixed signal circuits Deals with modeling topics such as reliability variability and crosstalk that define pre silicon design methodology and trends and are the focus of companies involved in wireless applications Develops methods to move analog into the digital domain quickly minimizing and eliminating common trade offs between performance power consumption simulation time verification size and cost Details approaches for very low power performances high speed interfaces phase locked loops PLLs voltage controlled oscillators VCOs analog to digital converters ADCs and biomedical filters Delineates the respective parts of a full system on chip SoC from the digital parts to the baseband blocks radio frequency RF circuitries electrostatic discharge ESD structures and built in self test BIST architectures Mixed Signal Circuits explores exciting opportunities in wireless communications and beyond The book is a must for anyone involved in mixed signal circuit design for future technologies Radiation Detection Systems

Jan Iwanczyk, Krzysztof Iniewski, 2021-12-24 The advances in semiconductor detectors scintillators photodetectors such as SiPM and readout electronics in the past decades have led to significant progress in terms of performance and greater choice of the detection tools in many applications This second edition of Radiation Detection Systems presents the state of the art in the design of detectors and integrated circuit design in the context of medical imaging using ionizing radiation The material in the book has been divided into two volumes The first volume on Sensor Materials Systems Technology and Characterization Measurements puts more emphasis on sensor materials detector and front electronics technology and designs as well as system optimization for different applications It also includes characterization measurements of the developed detection systems The second volume on Medical Imaging Industrial Testing and Security Applications is devoted

to more specific applications of detection systems in medical imaging industrial testing and security applications However there is an unavoidable certain overlap in topics between both volumes With its combined coverage of new materials and innovative new system approaches as well as a succinct overview of recent developments this two volumes set is an invaluable tool for any engineer professional or student working in electronics or an associated field Physical Design for 3D Integrated Circuits Aida Todri-Sanial, Chuan Seng Tan, 2017-12-19 Physical Design for 3D Integrated Circuits reveals how to effectively and optimally design 3D integrated circuits ICs It also analyzes the design tools for 3D circuits while exploiting the benefits of 3D technology The book begins by offering an overview of physical design challenges with respect to conventional 2D circuits and then each chapter delivers an in depth look at a specific physical design topic This comprehensive reference Contains extensive coverage of the physical design of 2 5D 3D ICs and monolithic 3D ICs Supplies state of the art solutions for challenges unique to 3D circuit design Features contributions from renowned experts in their respective fields Physical Design for 3D Integrated Circuits provides a single convenient source of cutting edge information for those pursuing 2 5D 3D technology

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