

thermal infrared sensors

Theory, Optimisation and Practice



Helmut Budzier

Gerald Gerlach

 WILEY

Thermal Infrared Sensors Theory Optimisation And Practice

Simon M. Sze, Yiming Li, Kwok K. Ng



Thermal Infrared Sensors Theory Optimisation And Practice:

Thermal Infrared Sensors Helmut Budzier, Gerald Gerlach, 2011-03-29 The problems involved in designing optimal infrared IR measuring systems under given conditions are commensurately complex The optical set up and radiation conditions the interaction between sensor and irradiation and the sensor itself determine the operation of the sensor system Simple calculations for solving these problems without any understanding of the causal relationships are not possible Thermal Infrared Sensors offers a concise explanation of the basic physical and photometric fundamentals needed for the consideration of these interactions It depicts the basics of thermal IR sensor systems and explains the manifold causal relationships between the most important effects and influences describing the relationships between sensor parameters such as thermal and spatial resolution and application conditions This book covers various types of thermal sensors like thermoelectric sensor pyroelectric sensors microbolometers micro Golay cells and bimorphous sensors basic applications for thermal sensors noise a limiting factor for thermal resolution and detectivity including an outline of the mathematics and noise sources in thermal infrared sensors the properties of IR sensor systems in conjunction with the measurement environment and application conditions 60 examples showing calculations of real problems with real numbers as they occur in many practical applications This is an essential reference for practicing design and optical engineers and users of infrared sensors and infrared cameras With this book they will be able to transform the demonstrated solutions to their own problems find ways to match their commercial IR sensors and cameras to their measurement conditions and to tailor and optimise sensors and set ups to particular IR measurement problems The basic knowledge outlined in this book will give advanced undergraduate and graduate students a thorough grounding in this technology Fundamentals of Infrared and Visible Detector Operation and Testing John David Vincent, Steve Hodges, John Vampola, Mark Stegall, Greg Pierce, 2015-10-26 Presents a comprehensive introduction to the selection operation and testing of infrared devices including a description of modern detector assemblies and their operation This book discusses how to use and test infrared and visible detectors The book provides a convenient reference for those entering the field of IR detector design test or use those who work in the peripheral areas and those who teach and train others in the field Chapter 1 contains introductory material Radiometry is covered in Chapter 2 The author examines Thermal detectors in Chapter 3 the Classical photon detectors simple photoconductors and photovoltaics in Chapter 4 and Modern Photon Detectors in Chapter 5 Chapters 6 through 8 consider respectively individual elements and small arrays of elements the readouts ROICs used with large imaging arrays and Electronics for FPA Operation and Testing The Test Set and The Testing Process are analyzed in Chapters 9 and 10 with emphasis on uncertainty and trouble shooting Chapters 11 through 15 discuss related skills such as Uncertainty Cryogenics Vacuum Optics and the use of Fourier Transforms in the detector business Some highlights of this new edition are that it Discusses radiometric nomenclature and calculations detector mechanisms the associated electronics how these devices are

tested and real life effects and problems Examines new tools in Infrared detector operations specifically selection and use of ROICs electronics for FPA operation operation of single element and very small FPAs microbolometers and multi color FPAs Contains five chapters with frequently sought after information on related subjects such as uncertainty optics cryogenics vacuum and the use of Fourier mathematics for detector analyses Fundamentals of Infrared and Visible Detector Operation and Testing Second Edition provides the background and vocabulary necessary to help readers understand the selection operation and testing of modern infrared devices

Physics of Semiconductor Devices Simon M. Sze, Yiming Li, Kwok K. Ng, 2021-03-03 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 and a detailed solutions manual for Instructor s only Explores new work on leading edge technologies such as MODFETs resonant tunneling diodes quantum cascade lasers single electron transistors real space transfer devices and MOS controlled thyristors *Physics of Semiconductor Devices* Fourth Edition is an indispensable resource for design engineers research scientists industrial and electronics engineering managers and graduate students in the field

Optical Remote Sensing of Ocean Hydrodynamics Victor Raizer, 2019-03-04 Optical Remote Sensing is one of the main technologies used in sea surface monitoring Optical Remote Sensing of Ocean Hydrodynamics investigates and demonstrates capabilities of optical remote sensing technology for enhanced observations and detection of ocean environments It provides extensive knowledge of physical principles and capabilities of optical observations of the oceans at high spatial resolution 1

4m and on the observations of surface wave hydrodynamic processes It also describes the implementation of spectral statistical and fusion algorithms for analyses of multispectral optical databases and establishes physics based criteria for detection of complex wave phenomena and hydrodynamic disturbances including assessment and management of optical databases This book explains the physical principles of high resolution optical imagery of the ocean surface discusses for the first time the capabilities of observing hydrodynamic processes and events and emphasizes the integration of optical measurements and enhanced data analysis It also covers both the assessment and the interpretation of dynamic multispectral optical databases and includes applications for advanced studies and nonacoustic detection This book is an invaluable resource for researches industry professionals engineers and students working on cross disciplinary problems in ocean hydrodynamics optical remote sensing of the ocean and sea surface remote sensing Readers in the fields of geosciences and remote sensing applied physics oceanography satellite observation technology and optical engineering will learn the theory and practice of optical interactions with the ocean

Blackbody Radiometry Victor Sapritsky, Alexander Prokhorov, 2020-10-19 This book the first of a two volume set focuses on the basic physical principles of blackbody radiometry and describes artificial sources of blackbody radiation widely used as sources of optical radiation whose energy characteristics can be calculated on the base of fundamental physical laws Following a review of radiometric quantities radiation laws and radiative heat transfer it introduces the basic principles of blackbody radiators design details of their practical implementation and methods of measuring their defining characteristics as well as metrological aspects of blackbody based measurements Chapters are dedicated to the effective emissivity concept methods of increasing effective emissivities their measurement and modeling using the Monte Carlo method techniques of blackbody radiators heating cooling isothermalization and measuring their temperature An extensive and comprehensive reference source this book is of considerable value to students researchers and engineers involved in any aspect of blackbody radiometry

Pyroelectric Ceramics Satyanarayan Patel, 2025-11-01 *Pyroelectric Ceramics Fundamentals Synthesis and Emerging Applications* discusses the latest advances in this important research field The book explores the pyroelectric effect in various types of ceramics and discusses various routes to enhance properties for applications like sensors energy harvesting and catalysis It provides insights into processing and design choices for optimizing pyroelectric properties and sensitivity illustrating new approaches to leveraging the pyroelectric effect in ceramics for a broad range of different industrial applications It will be a valuable reference resource for academic and industrial researchers scientists engineers and postgraduate students working with ceramics in pyroelectricity and related fields Provides an extensive and in depth review of pyroelectricity in lead free and lead based ceramics and composites Examines the factors that impact pyroelectricity such as processing methods and parameters electroding patterns the poling process and porosity Showcases the state of the art progress in pyroelectric energy harvesting pyrocatalysis pyro electrochemical and pyro paraelectrics Presents the future directions for enhancing

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