

Optical Radiation Detectors

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Optical Radiation Detectors

George P. Eppeldauer



Optical Radiation Detectors:

Optical Radiation Detectors E. L. Dereniak, Devon G. Crowe, 1984 Optical Radiation Detectors Eustace L Dereniak and Devon G Crowe Offers a comprehensive integrated treatment of optical radiation detectors discussing their capabilities and limitations Background material on radiometry noise sources and detector physics is introduced followed by more detailed discussions of photon detectors thermal detectors and charge transfer arrays of detectors

The Properties of Optical Radiation Detectors and Radiometers George P. Eppeldauer, 2020-08-24 This is the first book to investigate the improved performance of optical radiation detectors developed from the ultraviolet to the far infrared in the past two decades The development and applications of these improved detectors opened up a new era in radiometric photometric colorimetric and radiation temperature measurements where earlier blackbody sources and lamps were used with lower performance and in limited application areas This book will serve to help students practicing scientists engineers technicians and instrument manufacturers to learn compare and select the proper detectors for building using and calibrating opto electronic instruments with SI traceability and lowered measurement uncertainty in extended application areas

Radiometry and the Detection of Optical Radiation Robert W. Boyd, 1983-05-10 Presents a treatment of fundamental aspects of the generation transfer and detection of optical and infra red radiation Emphasis placed on practical aspects of radiometry in detection Discusses formal principles of radiometry signal to noise considerations in the detection of optical radiation and the operation of various radiation detectors Includes tables and graphs of blackbody functions

Optical Detector Applications for Radiometric Measurements George P. Eppeldauer, 2020-10-27 The recently developed optical radiation detectors need well designed radiometers to perform improved radiometric photometric colorimetric and radiation temperature measurements They can produce higher performance than traditionally used blackbody sources and lamps in wider application areas This book presents research based material in this field that has been implemented realized tested verified and evaluated It can be used as a reference source for students practicing scientists engineers technicians instrument manufacturers and measurement calibration people to learn design build select and use new generation radiometers The book describes a number of design issues and applications to implement the correct input geometry for detectors to measure radiometric power irradiance and radiance quantities and DC AC and pulsed electrical output signals

Optical Detector and Radiometer Standards George P. Eppeldauer, 2020-12-01 This book discusses modern user friendly radiometric practices that make it possible to convert from traditional source based optical radiation measurements to the more efficient and higher accuracy detector based applications and calibrations It considers improved performance optical detector and radiometer standards including photometers and tristimulus colorimeters and describes research based design considerations measurement of radiometric optical and electronic characteristics and comparison of absolute transfer and working standard detectors and radiometers from the ultraviolet UV to the infrared IR range The book will serve to guide the

optical radiation measurement community researchers manufacturers calibration laboratories students and practicing engineers to switch from the old and limited use measurement methods to the higher performance detector based applications The radiometer standards discussed here can be used to produce wide range radiometric photometric colour and radiation temperature measurements with low uncertainty

A Compendium on Optical Radiation Detectors Noel Edwin Van Slyke, NAVAL MISSILE CENTER POINT MUGU CALIF., 1967 The report is a short treatise on optical radiation detectors It is intended to be used as a reference work by persons who wish to measure radiation in the optical portion of the electromagnetic spectrum The optical spectrum lies between 0.01 micron and 1.000 microns There are sections on the theory of detection and cataloged data on commercially available detectors Author

Absolute Radiometry F Hengstberger, 2012-12-02 Absolute Radiometry Electrically Calibrated Thermal Detectors of Optical Radiation considers the application of absolute radiometry a technique employed in optical radiation metrology for the absolute measurement of radiant power This book is composed of eight chapters and begins with the principles of the absolute measurement of radiant power The subsequent chapters provide the criteria associated with reflectance and transmittance of optical radiation and the parameters used to characterize the performance of radiation detectors A chapter presents an analysis of the temperature distribution in a detector element This topic is followed by discussions of the environmental and instrumental corrections in absolute radiometry The final chapters deal with the alternative optical power scales and direct current substitution methods used in other fields of metrology

Infrared Detectors and Systems E. L. Dereniak, G. D. Boreman, 1996 Infrared Detectors and Systems offers a deep and detailed examination of the optical detection process and the electronics of mimicking the eye It further explores recent research in new detector materials and the latest advances in optical detectors This text covers the range of subjects necessary for the understanding of modern infrared imaging systems at a level appropriate for seniors or first year graduate students in physics or electrical engineering The first six chapters focus on fundamental background issues of radiation detection beginning with the basics of geometrical optics and finishing with a discussion of the figures of merit used for describing the signal to noise performance of a detector system Other topics include radiometry and flux transfer issues basic radiation detector mechanisms and random process mathematics The book concludes with a close look at infrared detection systems and related issues In the discussion of infrared search systems the range equation is developed in terms of the optical and detector parameters of the system A separate chapter is devoted to modulation transfer function a spatial frequency domain description of image quality The final chapter describes the design equations for thermal imager systems in terms of noise equivalent temperature difference and minimum resolvable temperature Supported and clarified by 470 illustrations and accompanied by an extensive glossary of the nomenclature this is an excellent text for graduate and senior level courses in radiometry and infrared detectors It is also a valuable reference for practicing engineers involved in the use design analysis and testing of infrared detector based systems

Radiometry

and the Detection of Optical Radiation Robert W. Boyd, 1948-,1983 A Compendium on Optical Radiation Detectors N. E. Van Slyke,1967 The report is a short treatise on optical radiation detectors It is intended to be used as a reference work by persons who wish to measure radiation in the optical portion of the electromagnetic spectrum The optical spectrum lies between 0.01 micron and 1 000 microns There are sections on the theory of detection and cataloged data on commercially available detectors Author **Determination of the Spectral Responsivity of Optical Radiation Detectors** ,1984

Detection of Optical Signals Antoni Rogalski,Zbigniew Bielecki,2022-06-09 Detection of Optical Signals provides a comprehensive overview of important technologies for photon detection from the X ray through ultraviolet visible infrared to far infrared spectral regions It uniquely combines perspectives from many disciplines particularly within physics and electronics which are necessary to have a complete understanding of optical receivers This interdisciplinary textbook aims to Guide readers into more detailed and technical treatments of readout optical signals Give a broad overview of optical signal detection including terahertz region and two dimensional material Help readers further their studies by offering chapter end problems and recommended reading This is an invaluable resource for graduate students in physics and engineering as well as a helpful refresher for those already working with aerospace sensors and systems remote sensing thermal imaging military imaging optical telecommunications infrared spectroscopy and light detection **Optical Radiometry** ,2005-10-26 This book deals with the practice of Optical Radiation Measurements with introductory material to introduce the topics discussed It will be most useful for students scientists and engineers working in any academic industrial or governmental projects related to optical radiation The book contains chapters that treat in detail the procedures and techniques for the characterization of both sources and detectors to the highest degree of accuracy and reliability It has a chapter devoted specifically to optical measurements of laser sources and fiberoptics for communication and a chapter devoted to uncertainty in measurement and its treatment with real examples of optical measurements The book contains introductory materials that will allow a newcomer to radiometry to develop the expertise to perform exacting and accurate measurement The authors stress the various causes of uncertainty in each phase of a measurement and thus allow for users to arrive at a correct assessment of their uncertainty of measurement in their particular circumstance Authors are from the Standards laboratories of AUSTRALIA CANADA ENGLAND GERMANY and the USA Latest techniques and practice of laboratory measurements to achieve the highest accuracy in the use of sources or detectors Unique illustrations of the apparatus and measurement techniques Practical measurement examples of calibration with full uncertainty analysis Comprehensive treatment of optical standards such as sources detectors and radiometers A complete chapter on laser power measurements and standards for fiber optic measurements A complete chapter on correlations in radiometry and practical examples A chapter devoted to diffraction effects in radiometry **Aero-Optical Effects** Stanislav Gordeyev,Eric J. Jumper,Matthew R. Whiteley,2023-01-04 AERO OPTICAL EFFECTS Explore the newest techniques and technologies used to mitigate the effects

of air flow over airborne laser platforms Aero Optical Effects Physics Analysis and Mitigation delivers a detailed and insightful introduction to aero optics and fully describes the current understanding of the physical causes of aero optical effects from turbulent flows at different speeds In addition to presenting a thorough discussion of instrumentation data reduction and data analysis the authors examine various approaches to aero optical effect mitigation using both flow control and adaptive optics approaches The book explores the sources characteristics measurement approaches and mitigation means to reduce aero optics wavefront error It also examines the precise measurements of aero optical effects and the instrumentation of aero optics Flow control for aero optical applications is discussed as are approaches like passive flow control active and hybrid flow control and closed loop flow control Readers will benefit from discussions of the applications of aero optics in relation to fields like directed energy and high speed communications Readers will also enjoy a wide variety of useful features and topics including Comprehensive discussions of both aero effects which include the effects that air flow has over a beam director mounted on an aircraft and aero optics which include atmospheric effects that degrade the ability of an airborne laser to focus a beam A treatment of air buffeting and its effects on beam stabilization and jitter An analysis of mitigating impediments to the use of high quality laser beams from aircraft as weapons or communications systems Adaptive optics compensation for aero optical disturbances Perfect for researchers engineers and scientists involved with laser weapon and beam control systems Aero Optical Effects Physics Analysis and Mitigation will also earn a place in the libraries of principal investigators in defense contract work and independent research and development

PHYSICAL METHODS, INSTRUMENTS AND MEASUREMENTS - Volume II Yuri Mikhailovich Tsipenyuk ,2009-04-15 Physical Methods Instruments and Measurements theme is a component of the Encyclopedia of Physical Sciences Engineering and Technology Resources which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty Encyclopedias The Theme provides a complete survey of the present status of our knowledge of modern physical instruments and measurements It is organized in the following main topics Measurements and Measurement Standards Sources of Particles and Radiation Detectors and Sensors Imaging and Characterizing Trace Element Analysis Technology of Physical Experiments Applications of Measurements and Instrumentation which are then expanded into multiple subtopics each as a chapter These four volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Statistical Optics Joseph W. Goodman,2015-05-06 This book discusses statistical methods that are useful for treating problems in modern optics and the application of these methods to solving a variety of such problems This book covers a variety of statistical problems in optics including both theory and applications The text covers the necessary background in statistics statistical properties of light waves of various types the theory of partial coherence and its applications imaging with partially coherent light atmospheric degradations of images and noise limitations in the detection of light New topics

have been introduced in the second edition including Analysis of the Vander Pol oscillator model of laser light Coverage on coherence tomography and coherence multiplexing of fiber sensors An expansion of the chapter on imaging with partially coherent light including several new examples An expanded section on speckle and its properties New sections on the cross spectrum and bispectrum techniques for obtaining images free from atmospheric distortions A new section on imaging through atmospheric turbulence using coherent light The addition of the effects of read noise to the discussions of limitations encountered in detecting very weak optical signals A number of new problems and many new references have been added

Statistical Optics Second Edition is written for researchers and engineering students interested in optics physicists and chemists as well as graduate level courses in a University Engineering or Physics Department

Radiation Measurement in Photobiology B. L. Diffey, 2013-10-22 Radiation Measurement in Photobiology deals with the measurement of optical radiation and its application in photobiology Optical radiation detectors as well as the calibration of light sources and detectors are discussed together with techniques for spectroradiometry and broadband radiometry Action spectroscopy and ultraviolet radiation dosimetry are also considered Comprised of nine chapters this volume begins with an introduction to the basic principles of light measurement followed by a survey of optical radiation detectors based on physical principles and the problems associated with calibration The next three chapters deal with important applications and extensions of these radiant measurements including a short review of biological and medical users of lasers The final three chapters on specialized studies and developments illustrate the wide diversity that exists in photobiology These cover ultraviolet radiation dosimetry using polymer films computer modeling of terrestrial ultraviolet radiation and the diffusion optics in biological media This book should be of interest to photobiologists

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 Optics and Photonics F. Graham Smith,Terry A. King,Dan Wilkins,2007-04-30 The Second Edition of this successful textbook provides a clear well written introduction to both the fundamental principles of optics and the key aspects of photonics to show how the subject has developed in the last few decades leading to many modern applications Optics and Photonics An Introduction Second Edition thus provides a complete undergraduate course on optics in a single integrated text and is an essential resource for all undergraduate physics science and engineering students taking a variety of optics based courses Specific changes for this edition include New material on modern optics and photonics Rearrangement of chapters to give a logical progression comprising groups of chapters on geometric optics wave optics and photonics Many more worked examples and problems Substantial revisions to chapters on Holography Lasers and the Interaction of Light with Matter Solutions can be found at www.booksupport.wiley.com

Catalog of National Bureau of Standards Publications, 1966-1976 United States. National Bureau of Standards. Technical Information and Publications Division,1978

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