

Optical Radiation Detectors

**EUSTACE L. DERENIAK
DEVON G. CROWE**

Optical Radiation Detectors

F. Grum



Optical Radiation Detectors:

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 **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 **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 Radiation Detectors* E. L. Dereniak, Devon G. Crowe, 1984-10 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

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 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 Radiometry and the Detection of Optical Radiation Robert W. Boyd, 1948-, 1983

Detector-Based Reference Calibrations for Electro-Optical Instruments George P. Eppeldauer, 2021-02-22 This book discusses user friendly radiometric practices that make it possible to convert from traditional source based optical radiation measurements to more efficient and higher accuracy detector based applications It also offers an introduction to spectral radiant power irradiance and radiance responsivity determinations and extensions from reference standard detectors and radiometers to the ultraviolet and infrared ranges In addition the book explores the research based design of measurement setups monochromators and uniform sources including tunable lasers collimators and integrating spheres and analyses directional errors of radiometers As such it will serve as a guide for 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 Beamconjoiner Characteristics and Linearity Measurements of Optical Radiation Detectors How-More Chen, 1992 *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 *Physical Detectors of Optical Radiation* Wolfgang Budde, 1983

Detection of Optical and Infrared Radiation R. H. Kingston, 2013-04-17 This text treats the fundamentals of optical and infrared detection in terms of the behavior of the radiation field the physical properties of the detector and the statistical behavior of the detector output Both incoherent and coherent detection are treated in a unified manner after which selected applications are analyzed following an analysis of atmospheric effects and signal statistics The material was developed during a one semester course at M I T in 1975 revised and presented again in 1976 at Lincoln Laboratory and rewritten for

publication in 1977 Chapter 1 reviews the derivation of Planck's thermal radiation law and also presents several fundamental concepts used throughout the text These include the three thermal distribution laws Boltzmann Fermi Dirac Bose Einstein spontaneous and stimulated emission and the definition and counting of electromagnetic modes of space Chapter 2 defines and analyzes the perfect photon detector and calculates the ultimate sensitivity in the presence of thermal radiation In Chapter 3 we turn from incoherent or power detection to coherent or heterodyne detection and use the concept of orthogonal spatial modes to explain the antenna theorem and the mixing theorem Chapters 4 through 6 then present a detailed analysis of the sensitivity of vacuum and semiconductor detectors including the effects of amplifier noise

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Detector Peter D. Johnson, DEPARTMENT OF THE NAVY WASHINGTON D C., 1973 The patent describes two propagators and receivers for the detection of submarine wakes The propagators irradiate oil films in submarine wakes thereby causing the oil to fluoresce The fluorescent emanations from adjacent areas of the oil are detected by the receivers which provide an appropriate indication

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 fiber optics 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

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Measurements: Budde, W. Physical detectors of optical radiation, 1979

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