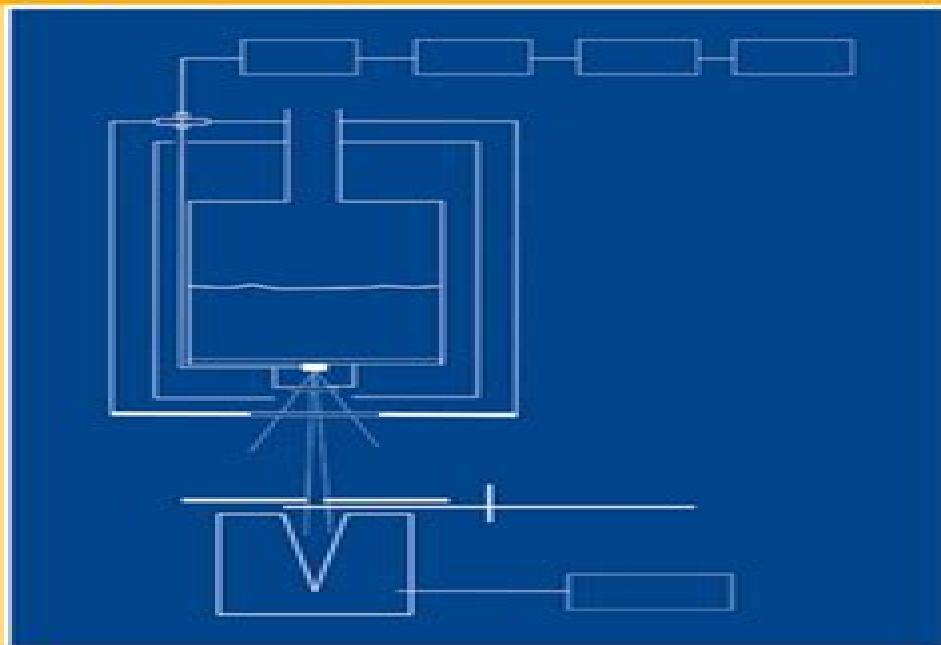


Fundamentals of Infrared and Visible Detector Operation and Testing

Second Edition



John David Vincent
Steven E. Hodges
John Vampola
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K Morrison

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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.

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.

Infrared and Terahertz Detectors, Third Edition Antoni Rogalski, 2019-01-10 This new edition of Infrared and Terahertz Detectors provides a comprehensive overview of infrared and terahertz detector technology from fundamental science to materials and fabrication techniques. It contains a complete overhaul of the contents including several new

chapters and a new section on terahertz detectors and systems It includes a new tutorial introduction to technical aspects that are fundamental for basic understanding The other dedicated sections focus on thermal detectors photon detectors and focal plane arrays *Fundamentals of Infrared and Visible Detector Operation and Testing* John David Vincent,2016 2D

Materials for Infrared and Terahertz Detectors Antoni Rogalski,2020-10-25 2D Materials for Infrared and Terahertz

Detectors provides an overview of the performance of emerging detector materials while also offering for the first time a comparison with traditional materials used in the fabrication of infrared and terahertz detectors Since the discovery of graphene its applications to electronic and optoelectronic devices have been intensively researched The extraordinary electronic and optical properties allow graphene and other 2D materials to be promising candidates for infrared IR and terahertz THz photodetectors and yet it appears that the development of new detectors using these materials is still secondary to those using traditional materials This book explores this phenomenon as well as the advantages and disadvantages of using 2D materials Special attention is directed toward the identification of the most effective hybrid 2D materials in infrared and terahertz detectors as well as future trends Written by one of the world's leading researchers in the field of IR optoelectronics this book will be a must read for researchers and graduate students in photodetectors and related fields Features Offers a comprehensive overview of the different types of 2D materials used in fabrication of IR and THz detectors and includes their advantages disadvantages The first book to compare new detectors to a wide family of common commercially available detectors that use traditional materials

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Fundamentals of Infrared Detector Operation and Testing John David Vincent, 1990-03-01 A comprehensive text reference for the operation and testing of infrared IR detectors Includes formulas and examples for most laboratory applications Covers detector types radiometric concepts test equipment measurements and error analysis *Government Reports Announcements & Index*, 1994-05 Physics Briefs, 1992 **International Aerospace Abstracts**, 1997 *Remote Sensing and GIS* A. P. Subudhi, B. S. Sokhi, Partha Sarathi Roy, 2001 **Electronics World**, 1999 **Optical Engineering**, 1992 1992 Fall Meeting, 1992 New Frontiers in Stellar Interferometry : 21-25 June, 2004, Glasgow, Scotland, United Kingdom, 2004 Research & Development, 2000-03 *Canadian Journal of Chemistry*, 2004 Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards, 2005 Library & Information Science Abstracts, 2002

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