

Light Detector

K. R. Mniszewski, Thomas E. Waterman, S. W. Harpe

Detection of Light George H. Rieke, 2021-05-13 Comprehensive, accessible, and physically based description of the approaches currently used to detect light, from X-ray to mm-wave.

Detection of Light George Rieke, 2003 Detection of Light provides a comprehensive overview of the important approaches to photon detection from ultraviolet to submillimeter spectral regions. This expanded and fully updated second edition discusses recently introduced types of detector such as superconducting tunnel junctions, hot electron bolometer mixers, and fully depleted CCDs. Material from many disciplines is combined into a comprehensive and unified treatment of the detection of light, with emphasis on the underlying physical principles. This self-contained text assumes only an undergraduate level of physics, and is suitable for advanced undergraduate and graduate students.

Photodetectors Silvano Donati, 2021-01-07 Explore this comprehensive introduction to the foundations of photodetection from one of the leading voices in the field The newly revised Photodetectors: Devices, Circuits and Applications delivers a thoroughly updated exploration of the fundamentals of photodetection and the novel technologies and concepts that have arisen since the release of the first edition twenty years ago. The book offers discussions of established and emerging photodetection technologies, including photomultipliers, the SPAD, the SiPM, the SNSPD, the UTC, the WGPD/TWPD, the QWIP, and the LT-GaAs. New examinations of correlation measurements on ultrafast pulses and single-photon detectors for quantum communications and LiDARs have also been added. Each chapter includes selected problems for students to work through to aid in learning and retention. A booklet of solutions is also provided. The book is especially ideal for students and faculties of Engineering, with an emphasis on first principles, design, and the engineering of photodetectors. Issues in the book are grouped through the development of concepts, as opposed to collections of technical details. Perfect for undergraduate students interested in the science or design of modern optoelectronics, Photodetectors: Devices, Circuits and Applications also belongs on the bookshelves of professors teaching PhD seminars in advanced courses on photodetection and noise, as well as engineers and physicists seeking a guide to an optimum photodetection solution.

Optical and Infrared Detectors R.J. Keyes, 2013-06-05 This volume is written for those who desire a comprehensive analysis of the latest developments in infrared detector technology and a basic insight into the fundamental processes which are important to evolving detection techniques. Each of the most salient infrared detector types is treated in detail by authors who are recognized as leading authorities in the specific areas addressed. In order to concentrate on pertinent aspects of the present state of the detector art and the unique point of view of each author, extensive tutorials of a background nature are avoided in the text but are readily available to the reader through the many references given. The volume opens with a broad-brush introduction to the various types of infrared detectors that have evolved since Sir William Herschel's discovery of infrared radiation 175 years ago. The second chapter presents an overall perspective of the infrared detector art and serves as the cohesive cement for the more in-depth presentation of subsequent chapters. Those detector types which, for one reason or other have not attained wide use today, are also discussed in Chapter 2. The more notable and widely used infrared detectors can be divided into three basic classes which are indicative of the primary effect produced by the photon-detector interaction, i.e., thermal, photoconductive, photo voltaic, and photoemissive. Chapters 3, 4, and 5 offer a detailed treatment of each of these important processes.

Detection and Spectrometry of Faint Light J. Meaburn, 2012-12-06 The aim of this book is to bridge the gap between the pure instrumental physicist and the user of detectors and spectrometers. The essential parameters describing the performance of these devices are identified and the designs of a wide variety of practical instruments are illustrated working on topical problems. The author has spent 14 years designing and applying spectrometers in the visible and near infra-red domains predominantly to investigate gaseous nebulae. Most recently he has designed for instance a large (15 x IS-in.) Ha interference filter for the SRC, 48-in. Schmidt camera, insect-eye Fabry-Perot spectrographs, image tube filter cameras, a SISAM monochromator, a three-beam

Fabry-Perot monochromator (collaboratively) for the ISO-in. Anglo-Australian telescope and a two-etalon PEPSIOS type monochromator. Consequently emphasis in this book is placed on devices useful from the ultra-violet to the infra-red. Likewise many of the illustrations are drawn from astronomy. However most of the ideas that are presented invariably have applications in other branches of science and wavelength domains.

Detection of Light Rieke,1994 *Detection of Light* provides a comprehensive overview of the important approaches to photon detection from the ultraviolet to the submillimeter spectral regions. This expanded and fully updated second edition discusses recently introduced types of detector such as superconducting tunnel junctions, hot electron bolometer mixers, and fully depleted CCDs, and also includes historically important devices such as photographic plates. Material from many disciplines is combined into a comprehensive and unified treatment of the detection of light, with emphasis on the underlying physical principles. Chapters have been thoroughly reorganised to make the book easier to use, and each includes problems with solutions as appropriate. This self-contained text assumes only an undergraduate level of physics, and develops understanding as it is needed. It is suitable for advanced undergraduate and graduate students, and will provide a valuable reference for professionals in astronomy, engineering and physics.

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.

Detection of Light G. H. Rieke,1996-06-27 How does a quantum well detector, a silicon BIB or a CCD work? How are heterodyne techniques used in infrared detectors and submillimeter receivers? And how do you specify the performance of any detector system? This volume answers all these questions with an up-to-date review of all the techniques for the detection of radiation. This presentation approaches detectors from the perspective of the underlying physics; and in this way it provides a unified understanding of the detection of radiation in the ultraviolet through to the submillimetre. Clearly worked examples demonstrate the physics involved and problems are provided to increase the reader's knowledge of how each system works. This clearly written and authoritative review of modern detector systems will develop the understanding of final year undergraduate and graduate students, and will provide a valuable reference for professionals in astronomy, engineering and physics.

The Physics of Quantum Well Infrared Photodetectors K. K. Choi,1997 In the past, infrared imaging has been used exclusively for military applications. In fact, it can also be useful in a wide range of scientific and commercial applications. However, its wide spread use was impeded by the scarcity of the imaging systems and its high cost. Recently, there is an emerging infrared technology based on quantum well intersubband transition in III-V compound semiconductors. With the new technology, these impedances can be eliminated and a new era of infrared imaging is in sight. This book is designed to give a systematic description on the underlying physics of the new detectors and other issues related to infrared managing.

Towards a Major Atmospheric Cerenkov Detector for TeV Astro/particle Physics Patrick Fleury, Giuseppe Vacanti, 1992

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.

Detection of Light ; From the ... Rieke, 1994

Inorganic Scintillators for Detector Systems Paul Lecoq, Alexander Gekht, Mikhail Korzhik, 2016-11-25 This second edition features new chapters highlighting advances in our understanding of the behavior and properties of scintillators, and the discovery of new families of materials with light yield and excellent energy resolution very close to the theoretical limit. The book focuses on the discovery of next-generation scintillation materials and on a deeper understanding of fundamental processes. Such novel materials with high light yield as well as significant advances in crystal engineering offer exciting new perspectives. Most promising is the application of scintillators for precise time tagging of events, at the level of 100 ps or higher, heralding a new era in medical applications and particle physics. Since the discovery of the Higgs Boson with a clear signature in the lead tungstate scintillating blocks of the CMS Electromagnetic Calorimeter detector, the current trend in particle physics is toward very high luminosity colliders, in which timing performance will ultimately be essential to mitigating pile-up problems. New and extremely fast light production mechanisms based on Hot-Intraband-Luminescence as well as quantum confinement are exploited for this purpose. Breakthroughs such as crystal engineering by means of co-doping procedures and selection of cations with small nuclear fragmentation cross-sections will also pave the way for the development of more advanced and radiation-hard materials. Similar innovations are expected in medical imaging, nuclear physics ecology, homeland security, space instrumentation and industrial applications. This second edition also reviews modern trends in our understanding and the engineering of scintillation materials. Readers will find new and updated references and information, as well as new concepts and inspirations to implement in their own research and engineering endeavors.

Quantum Enhancement of a 4 km Laser Interferometer Gravitational-Wave Detector Sheon S. Y. Chua, 2015-05-09 The work in this thesis was a part of the experiment of squeezed light injection into the LIGO interferometer. The work first discusses the detailed design of the squeezed light source which would be used for the experiment. The specific design is the doubly-resonant, traveling-wave bow-tie cavity squeezed light source with a new modified coherent sideband locking technique. The thesis describes the properties affecting the squeezing magnitudes and offers solutions which improve the gain. The first part also includes the detailed modeling of the back-scattering noise of a traveling Optical Parametric Oscillator (OPO). In the second part, the thesis discusses the LIGO Squeezed Light Injection Experiment, undertaken to test squeezed light injection into a 4km interferometric gravitational wave detector. The results show the first ever measurement of squeezing enhancement in a full-scale suspended gravitational wave interferometer with Fabry-Perot arms. Further, it showed that the presence of a squeezed-light source added no additional noise in the low frequency band. The result was the best sensitivity achieved by any gravitational wave detector. The thesis is very well organized with the adequate theoretical background including basics of Quantum Optics, Quantum noise pertaining to gravitational wave detectors in various configurations, along with extensive referencing necessary for the experimental set-up. For any non-experimental scientist, this introduction is a very useful and enjoyable reading. The author is the winner of the 2013 GWIC Theses Prize.

Introduction to Light Trapping in Solar Cell and Photo-detector Devices Stephen Fonash, 2014-09-15 New Approaches to Light Trapping in Solar Cell Devices discusses in detail the

use of photonic and plasmonic effects for light trapping in solar cells. It compares and contrasts texturing, the current method of light-trapping design in solar cells, with emerging approaches employing photonic and plasmonic phenomena. These new light trapping methods reduce the amount of absorber required in a solar cell, promising significant cost reduction and efficiency. This book highlights potential advantages of photonics and plasmonics and describes design optimization using computer modeling of these approaches. Its discussion of ultimate efficiency possibilities in solar cells is grounded in a review of the Shockley-Queisser analysis; this includes an in-depth examination of recent analyses building on that seminal work.

UV Solid-State Light Emitters and Detectors Michael S. Shur, Arturas Zukauskas, 2004-05-31
Infrared and visible light LEDs and photodetectors have found numerous applications and have become a truly enabling technology. The promise of solid state lighting has invigorated interest in white light LEDs. Ultraviolet LEDs and solar blind photodetectors represent the next frontier in solid state emitters and hold promise for many important applications in biology, medicine, dentistry, solid state lighting, displays, dense data storage, and semiconductor manufacturing. One of the most important applications is in systems for the identification of hazardous biological agents. Compared to UV lamps, UV LEDs have lower power consumption, a longer life, compactness, and sharper spectral lines. UV LEDs can provide a variety of UV spectra and have shape and form factor flexibility and ruggedness. Using conventional phosphors, UV LEDs can generate white light with high CRI and high efficiency. If quantum cutter phosphors are developed, white light generation by UV LEDs might become even more efficient. Advances in semiconductor materials and in improved light extraction techniques led to the development of a new generation of efficient and powerful visible high-brightness LEDs and we expect that similar improvements will be achieved in solid-state UV technology.

Smoke Detector Design and Smoke Properties Richard Bukowski, G. W. Mulholland, 1978

Detector Directory K. R. Mniszewski, Thomas E. Waterman, S. W. Harpe, 1978

Smoke detector training National Fire Academy, 1978

A Micrometeoroid Velocity Detector Frank Neuman, 1963

The Top Books of the Year Light Detector The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Let's delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. **Light Detector** : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. **Uncover the Best** : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. **Discover the Magic** : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles

Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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