

**2nd** edition

# **Detection of Light**

From the Ultraviolet to the Submillimeter

**George Rieke**

CAMBRIDGE

# Detection Of Light From The Ultraviolet To The Submillimeter

**United States. National Aeronautics  
and Space Administration. Scientific  
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## **Detection Of Light From The Ultraviolet To The Submillimeter:**

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*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

Observational Astrophysics Pierre Léna, Daniel Rouan, François Lebrun, François Mignard, Didier Pelat, 2012-01-11 This is the updated widely revised restructured and expanded third edition of L na et al s successful work *Observational Astrophysics* It presents a synthesis on tools and methods of observational astrophysics of the early 21st century Written specifically for astrophysicists and graduate students this textbook focuses on fundamental and sometimes practical limitations on the ultimate performance that an astronomical system may reach rather than presenting particular systems in detail In little more than a decade there has been extraordinary progress in imaging and detection technologies in the fields of adaptive optics optical interferometry in the sub millimetre waveband observation of neutrinos discovery of exoplanets to name but a few examples The work deals with ground based and space based astronomy and their respective fields And it also presents the ambitious concepts behind space missions aimed for the next decades Avoiding particulars it covers the whole of the electromagnetic spectrum and provides an introduction to the new forms of astronomy becoming possible with gravitational waves and neutrinos It also treats numerical aspects of observational astrophysics signal processing astronomical databases and virtual observatories

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

*Scientific and Technical Aerospace Reports* , 1987 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been

entered into the NASA Scientific and Technical Information Database      **Instrumentation and Measurement for Environmental Sciences** Bailey W. Mitchell, 1983      Guide to Annual Subject Index for Technical Publications Announcements, Apr.-Dec. 1962 United States. National Aeronautics and Space Administration, 1962      *Astronomy and Astrophysics Abstracts* S. Böhme, U. Esser, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G. Zech, 2013-12-14 From the reviews *Astronomy and Astrophysics Abstracts* has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world *Space Science Reviews* 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes *The Observatory Magazine* 1      **Illinois Technograph** , 1964      **NASA Patent Abstracts Bibliography** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1987      NASA Patent Abstracts Bibliography United States. National Aeronautics and Space Administration. Scientific and Technical Information Branch, 1987      **Design for Security** Richard J. Healy, 1983      Plasma Physics Index , 1981      **Optical Engineering** , 1994 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology      *International Journal of Infrared and Millimeter Waves* , 1994      *The 1991/92 Graduate Student Researchers Program, Including the Underrepresented Minority Focus Component* United States. National Aeronautics and Space Administration, 1991      Bibliography of Scientific and Industrial Reports , 1961      **Laser Focus** , 1974      *Intersubband Transitions In Quantum Structures* Roberto Paiella, 2010-05-05 Advances in epitaxial growth and nanofabrication technology in the past several years have made it possible to engineer sophisticated semiconductor quantum devices with unprecedented control of their electronic and optical properties A particularly important class of such devices is based on intersubband transitions i e optical transitions between quantized electronic states in semiconductor heterostructures Most notably mid infrared quantum well infrared photodetectors QWIPs and quantum cascade lasers nowadays offer superior performance for applications such as thermal imaging spectroscopy and biochemical sensing and have recently become commercially available Intersubband devices also have the potential for a revolutionary impact in the fields of silicon photonics terahertz sensing and ultra high bandwidth fiber optic communications

and extensive research is ongoing to fulfill this promise. Joined by an international group of world experts, Paiella describes the basic device physics and applications of intersubband transitions as well as the more recent and important developments in this exciting area of semiconductor nanotechnology.

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