

# Mercury Cadmium Telluride Imagers A Patent Oriented Survey Handbook Of Sensors And Actuators

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*NASA Patent Abstracts Bibliography: A Continuing Bibliography. Section 2: Indexes (supplement 44)* 1994

*NASA Patent Abstracts Bibliography* United States. National Aeronautics and Space Administration. Scientific and Technical Information Program 1993

*Radiative Properties of Semiconductors* N.M. Ravindra 2017-08-21 Optical properties, particularly in the infrared range of wavelengths, continue to be of enormous interest to both material scientists and device engineers. The need for the development of standards for data of optical properties in the infrared range of wavelengths is very timely considering the on-going transition of nano-technology from fundamental R&D to manufacturing. Radiative properties play a critical role in the processing, process control and manufacturing of semiconductor materials, devices, circuits and systems. The design and implementation of real-time process control methods in manufacturing requires the knowledge of the radiative properties of materials. Sensors and imagers operate on the basis of the radiative properties of materials. This book reviews the optical properties of various semiconductors in the infrared range of wavelengths.

Theoretical and experimental studies of the radiative properties of semiconductors are presented. Previous studies, potential applications and future developments are outlined. In Chapter 1, an introduction to the radiative properties is presented. Examples of instrumentation for measurements of the radiative properties is described in Chapter 2. In Chapters 3-11, case studies of the radiative properties of several semiconductors are elucidated. The modeling and applications of these properties are explained in Chapters 12 and 13, respectively. In Chapter 14, examples of the global infrastructure for these measurements are illustrated.

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Contract/grant number index, NTIS order/report number index 1-E.--Section 6. NTIS order/report number index F-Z.

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**Mercury Cadmium Telluride Imagers** A.C. Onshage 1997-06-18 In two parts, this book describes the evolution of mercury cadmium telluride (HgCdTe) imager structures based upon published patents and patent applications. The first part covers monolithic arrays, and the second part describes hybrid arrays. Each part has 5 chapters, with each document placed in chronological order, with the documents

with the earliest priority placed first. Focus has been directed at the steps of manufacturing and structures of imagers. There is an index at the end of the book containing the patent number, the name of the applicant and the date of publication of each cited document. This monograph will serve as a useful summary of the patents and patent applications in the field of mercury cadmium telluride imagers.

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**Infrared Detectors** Antonio Rogalski 2010-11-15 Completely revised and reorganized while retaining the approachable style of the first edition, *Infrared Detectors*, Second Edition addresses the latest developments in the science and technology of infrared (IR) detection. Antoni Rogalski, an internationally recognized pioneer in the field, covers the comprehensive range of subjects necessary to un

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**Laser Radar** National Research Council 2014-03-14 In today's world, the range of technologies with the potential to threaten the security of U.S. military forces is extremely broad. These include developments in explosive materials, sensors, control systems, robotics, satellite systems, and computing power, to name just a few. Such technologies have not only enhanced the capabilities of U.S. military forces, but also offer enhanced offensive capabilities to potential adversaries - either directly through the development of more sophisticated weapons, or more indirectly through opportunities for interrupting the function of defensive U.S. military systems. Passive and active electro-optical (EO) sensing technologies are prime examples. Laser Radar considers the potential of active EO technologies to create surprise; i.e., systems that use a source of visible or infrared light to interrogate a target in combination with sensitive detectors and processors to analyze the returned light. The addition of an interrogating light source to the system adds rich new phenomenologies that enable new capabilities to be explored. This report evaluates the fundamental, physical limits to active EO sensor technologies with potential military utility; identifies key technologies that may help overcome the impediments within a 5-10 year timeframe; considers the pros and cons of implementing each existing or emerging technology; and evaluates the potential uses of active EO sensing technologies, including 3D mapping and multi-discriminate laser radar technologies.

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