

### **mercury cadmium telluride growth pdf**

Description. Mercury Cadmium Telluride: Growth, Properties and Applications provides both an introduction for newcomers, and a comprehensive review of this fascinating material. Part One discusses the history and current status of both bulk and epitaxial growth techniques, Part Two is concerned with the wide range of properties of MCT,...

### **Mercury Cadmium Telluride: Growth, Properties and**

Mercury cadmium telluride. The amount of cadmium (Cd) in the alloy can be chosen so as to tune the optical absorption of the material to the desired infrared wavelength. CdTe is a semiconductor with a bandgap of approximately 1.5 electronvolts (eV) at room temperature. HgTe is a semimetal, which means that its bandgap energy is zero.

### **Mercury cadmium telluride - Wikipedia**

About this Book. Mercury Cadmium Telluride: Growth, Properties and Applications provides both an introduction for newcomers, and a comprehensive review of this fascinating material. Part One discusses the history and current status of both bulk and epitaxial growth techniques, Part Two is concerned with the wide range of properties of MCT,...

### **Mercury Cadmium Telluride - Wiley Online Library**

Substrate Issues for the Growth of Mercury Cadmium Telluride R. TRIBOULET and A. TROMSON-CARLI C.N.R.S., Laboratoire de Physique des Solides de Bellevue, 1, Place A. Briand,

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### **Mercury Cadmium Telluride - sciencedirect.com**

The growth of thin films of mercury-based materials by molecular beam epitaxy (MBE) presents significant experimental problems which must be overcome in order to successfully grow infrared detector materials such as mercury cadmium telluride (MCT).

### **MBE Growth of Mercury Cadmium Telluride: Issues and**

Mercury cadmium telluride (MCT) is the third most well-regarded semiconductor after silicon and gallium arsenide and is the material of choice for use in infrared sensing and imaging.

### **Mercury Cadmium Telluride | Wiley Online Books**

Mercury cadmium telluride (HgCdTe) infrared detectors have been intensively developed over the past 40 years since the first synthesis of this compound semiconductor in 1958. Today, HgCdTe is the most widely used infrared detector material.

### **Modeling Mercury Cadmium Telluride (HgCdTe) Photodiodes**

In this report the growth, processing, fabrication, and characterization of HgCdTe (or mercury cadmium telluride [MCT]) infrared (IR) detectors for advanced target detection are reported. The material was grown by

solid source molecular beam epitaxy (MBE).

### **Processing, Fabrication and Characterization of Advanced**

of HOT infrared detectors. First, the growth of high quality (minority carrier lifetime of 7.2  $\mu\text{s}$  at 200K) heterostructures based on mercury cadmium telluride by molecular beam epitaxy for equilibrium and non-equilibrium types of detectors. Secondly, the fabrication of p on n format photovoltaic infrared detectors with very

### **MERCURY CADMIUM TELLURIDE FOR HIGH - apps.dtic.mil**

Mercury Cadmium Telluride Short Form Catalog in PDF Format. HgCdTe is a ternary semiconductor compound which exhibits a wavelength cutoff proportional to the alloy composition. The actual detector is composed of a thin layer (10 to 20  $\mu\text{m}$ ) of HgCdTe with metalized contact pads defining the active area.

### **Photoconductive Mercury Cadmium Telluride Detectors**

Download as PDF. Set alert. Fourier Transform Infrared (FTIR) Spectroscopy ... (DTGS) detectors and the mercury cadmium telluride (MCT) detectors. In a DTGS detector a change in the intensity of IR radiation striking the detector will cause a proportional change in temperature. ... or cadmium-mercury-telluride. Each specific mixture of half ...

### **Mercury Cadmium Telluride - an overview | ScienceDirect Topics**

Mercury cadmium telluride (MCT) is the third most well-regarded semiconductor after silicon and gallium arsenide and is the material of choice for use in infrared sensing and imaging.

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