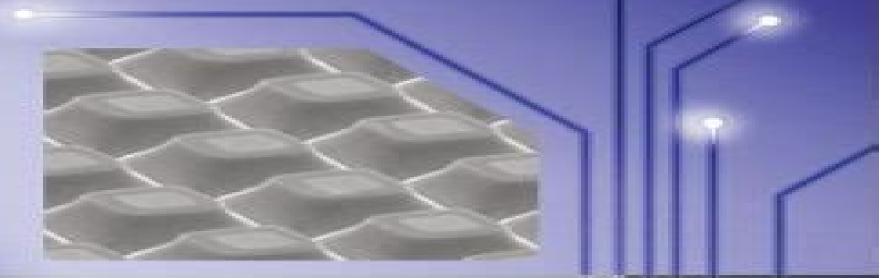
Mercury Cadmium Telluride

Growth, Properties and Applications





Whey Series in Materials for Electronic & Optoelectronic Applications

Peter Capper and

James W. Garland

Properties Of Mercury Cadmium Telluride

Robert F. Brebrick, MARQUETTE UNIV MILWAUKEE WI DEPT OF MECHANICAL ENGINEERING.

Properties Of Mercury Cadmium Telluride:

Properties of Mercury Cadmium Telluride John Chadwick Brice, Peter Capper, 1987 **Mercury Cadmium Telluride** Peter Capper, James Garland, 2011-06-20 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 The reason for this is that MCT can be tuned to the desired IR wavelength by varying the cadmium concentration 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 and Part Three covers the various device types that have been developed using MCT Each chapter opens with some historical background and theory before presenting current research Coverage includes Bulk growth and properties of MCT and CdZnTe for MCT epitaxial growth Liquid phase epitaxy LPE growth Metal organic vapour phase epitaxy MOVPE Molecular beam epitaxy MBE Alternative substrates Mechanical thermal and optical properties of MCT Defects diffusion doping and annealing Dry device processing Photoconductive and photovoltaic detectors Avalanche photodiode detectors Room temperature IR detectors **Transport Properties of** Mercury Cadmium Telluride by Infrared Reflectance Charlotte Ann Tatsch, 1989 **Physics and Chemistry of** Mercury Cadmium Telluride and Novel IR Detector Materials David G. Seiler, 1991 **Properties of Narrow Gap** Cadmium-based Compounds Peter Capper, 1994 This highly structured volume contains sections on growth and device aspects of mercury cadmium telluride MCT Proceedings of the US Workshop on the Physics and Chemistry of **Mercury Cadmium Telluride** ,1983 Assessment of Mercury-cadmium Telluride Materials Technology ,1982 Properties of Electrodeposited Mercury Cadmium Telluride as a Solar Cell Material Mark S. Marychurch, 1991 Properties of Mercury-Cadmium-Telluride Solid Solutions Robert F. Brebrick, MARQUETTE UNIV MILWAUKEE WI DEPT OF MECHANICAL ENGINEERING., 1983 Measurements of the partial pressures in the mercury cadmium tellurium system are indicated The thermodynamic analysis of this system is briefly sketched References to detailed accounts of these results are cited There now exist sufficient data that this system is to a large extent thermodynamically characterized Moreover a thermodynamic model has been established that allows a quantitative reproduction of essentially all of what appears to be the reliable phase diagram partial pressure and general thermodynamic data Author **Physics and Chemistry of** Mercury Cadmium Telluride and Novel Infrared Detector Materials David G. Seiler, 1991 **Proceedings of the** 1987 U.S. Workshop on the Physicsandchemistry of Mercury Cadmium Telluride ,1988 **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 Theory of the Electronic Properties of Mercury-Cadmium-Telluride Alloys A. B. Chen, A. Sher, AUBURN UNIV AL., 1984 An accurate band structure theory for semiconductor alloys was achieved It has been successfully applied to Mercury Cadmium Telluride alloys MCT and is being extended to III V and other II VI semiconductor alloys As a result of this research ten papers have been published Several other papers and one book are in progress The most important finding was the origin of the major disorder and its effects on different parts of the band structure The large's energy fluctuation between the Hg and Cd sites was found to cause a large smearing in the density of states about 5 eV below the top of the valence band but it produced very little bowing and scattering for the states near the band gap A detailed study of these facts accounts for the lattice instability of MCT and its very high electron mobility Another significant result is that while Cd weakens a neighboring Hg Te bond Zn strengthens it Such structural studies may help resolve the adverse structural difficulties affecting MCT as an infrared material The Spectroscopy of Semiconductors ,1992-07-31 Spectroscopic techniques are among the most powerful characterization methods used to study semiconductors This volume presents reviews of a number of major spectroscopic techniques used to investigate bulk and artificially structured semiconductors including photoluminescence photo reflectance inelastic light scattering magneto optics ultrafast work piezo spectroscopy methods and spectroscopy at extremely low temperatures and high magnetic fields Emphasis is given to major semiconductor systems and artificially structured materials such as GaAs InSb Hg1 xCdxTe and MBE grown structures based upon GaAs AlGaAs materials Both the spectroscopic novice and the expert will benefit from the descriptions and discussions of the methods principles and applications relevant to today s semiconductor structures Key Features Discusses the latest advances in spectroscopic techniques used to investigate bulk and artificially structured semiconductors Features detailed review articles which cover basic principles Highlights specific applications such as the use of laser spectroscopy for the characterization of GaAs quantum well structures **Mid-infrared Optoelectronics** Eric Tournié, Laurent Cerutti, 2019-10-19 Mid infrared Optoelectronics Materials Devices and Applications addresses the new materials devices and applications that have emerged over the last decade along with exciting areas of research Sections cover fundamentals light sources photodetectors new approaches and the application of mid IR devices with sections discussing LEDs laser diodes and quantum cascade lasers mid infrared optoelectronics emerging research areas dilute bismide and nitride alloys Group IV materials gallium nitride heterostructures and new nonlinear materials Finally the most relevant applications of mid infrared devices are reviewed in industry gas sensing spectroscopy and imaging This book presents a key reference for materials scientists engineers and professionals working in R D in the area of semiconductors

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cell phones and computers for example and both are manufactured by growing crystals Edited by the organizers of the International Workshop on Crystal Growth Technology this ready reference is essential reading for materials scientists chemists physicists computer hardware manufacturers engineers and those working in the chemical and semiconductor industries They have assembled an international team of experts who present the current challenges latest methods and new applications for producing these materials necessary for the electronics industry using bulk crystal growth technology From the contents General aspects of crystal growth technology Compound semiconductors Halides and oxides Crystal growth for Narrow Gap Semiconductors - Proceedings Of The Eighth International Conference sustaining energy Crystal machining Sue-chu Shen, DY Tang, GZ Zheng, Guenther Bauer, 1998-04-09 Contents Materials and Related Physics Magnetic Field and Dimensionality Induced Population Effects in HgSe and HgSe Fe O Portugall et al Growth and in Situ Scanning Tunneling Microscopy Studies of IV VI Semiconductors Abstract G Springholz Detectors and Arrays China's Satellite Project for Earth Observation and Infrared Detection D B Kuang Recent Progress in Quantum Well Infrared Photodetectors and Focal Plane Arrays for LWIR Imaging Applications S S Li Infrared Lasers Mid Infrared Resonant Cavity Based Devices Of Detectors and Emitters J Bleuse et al W Lasers for the Mid IR J R Meyer et al Devices and Related Physics Optoelectronic Devices from Indium Aluminium Antimonide and Mercury Cadmium Telluride T Ashley Three Terminal Superconductor Semiconductor Devices H Takayanagi T Akazaki Physics Coherent Anti Stokes Raman Scattering in Diluted Magnetic IV VI Epilayers and Superlattices H Pascher et al High Field Cyclotron Resonance in GaSb and Effective Mass at the and L Points H Arimoto et al Quantum Dots Growth and Characterization of InAs Quantum Dots N N Ledentsov Self Assembled InAs Quantum Boxes Growth Intrinsic Properties Potential Applications Abstract J M G rard and other papers Readership Researchers in the field of semiconductors

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