

SEMICONDUCTORS AND SEMIMETALS

VOLUME 18

Mercury Cadmium
Telluride



Semiconductors And Semimetals Volume 13 Cadmium Telluride

Tom Markvart, Luis Castaner



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Semiconductors and semimetals. Volume 13 : cadmium telluride R. K. Willardson, 1993 Semiconductors and Semimetals, 1978-02-22 Semiconductors and Semimetals Semiconductors and Semimetals: Device applications Jacques I. Pankove, 1984 CdTe and Related Compounds; Physics, Defects, Hetero- and Nano-structures, Crystal Growth, Surfaces and Applications, 2009-10-22 Almost thirty years after the remarkable monograph of K Zanio and the numerous conferences and articles dedicated since that time to CdTe and CdZnTe after all the significant progresses in that field and the increasing interest in these materials for several extremely attractive industrial applications such as nuclear detectors and solar cells the edition of a new enriched and updated monograph dedicated to these two very topical II VI semiconductor compounds covering all their most prominent modern and fundamental aspects seemed very relevant and useful Detailed coverage of the main topics associated with the very topical II VI semiconductor compound CdTe and its alloy CZT Review of the CdTe recent developments Fundamental background of many topics clearly introduced and exposed **CdTe and CdZnTe Materials** Kris Iniewski, 2024-08-21 This book provides readers with a good overview of some of most recent advances in the field of CdTe and CdZnTe detector technology for medical imaging industrial testing and security scanning especially as it pertains to new applications There will be a good mixture of general chapters in both technology and applications in the X ray testing The book will have an in depth review of the research topics from leading world specialists in the field The conversion of the X ray and gamma ray signal into analogue digital value will be covered in some chapters Some would also provide a review of CMOS chips for CdTe and CdZnTe image sensors This book serves as an excellent reference for people already working in the field as well as for people wishing to enter it **Practical Handbook of Photovoltaics** Augustin McEvoy, Tom Markvart, Luis Castaner, T. Markvart, L. Castaner, 2003-10-30 As part of the growing sustainable and renewable energy movement the design manufacture and use of photovoltaic devices is increasing in pace and frequency The Handbook of Photovoltaics will be a benchmark publication for those involved in the design manufacture and use of these devices The Handbook covers the principles of solar cell function the raw materials photovoltaic systems standards calibration testing economics and case studies The editors have assembled a cast of internationally respected contributors from industry and academia The report is essential reading for Physicists electronic engineers designers of systems installers architects policy makers relating to photovoltaics Solar Cells Tom Markvart, Luis Castaner, 2004-12-15 The capture and use of solar energy has been growing for many years but only in recent times have advances in design and manufacture allowed us to see the incorporation of solar energy as a significant player in the renewable energy arena Solar cells are at the heart of any photovoltaic system and in this book the various types are described and their characteristics reviewed Going beyond materials design and function Solar Cells also covers their testing monitoring and calibration thus providing a comprehensive account of current activity in this important field of research and industry Solar Cells has been abstracted from the recent

Practical Handbook of Photovoltaics by the same editors ISBN 185617 3909 2003 Elsevier Internationally respected contributors from industry and academia Abstracted from The Practical Handbook of Photovoltaics by the same Editors A comprehensive source book on all aspects of solar cells 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 *International Research in Engineering Sciences VIII* Tayfun Soysal,2024-05-01 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

Whispering the Secrets of Language: An Emotional Quest through **Semiconductors And Semimetals Volume 13 Cadmium Telluride**

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