SEMICONDUCTORS AND SEMIMETALS

VOLUME 18

Mercury Cadmium Telluride

Semiconductors And Semimetals Volume 13 Cadmium Telluride

Kris Iniewski

Semiconductors And Semimetals Volume 13 Cadmium Telluride:

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 inthe 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 **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 Photovoltaic Materials Richard H Bube,1998-05-30 Research and development of photovoltaic solar cells is playing an ever larger practical role in energy supply and ecological conservation all over the world Many materials science problems are encountered in understanding existing solar cells and the development of more efficient less costly and more stable cells This important and

timely book provides a historical overview but concentrates primarily on exciting developments in the last decade It describes the properties of the materials that play an important role in photovoltaic applications the solar cell structures in which they are used and the experimental and theoretical developments that have led to the most promising contenders a

Proceedings of the Estonian Academy of Sciences, Chemistry ,1999-03 *Photon, Beam and Plasma Assisted Processing* E.F. Krimmel,I.W. Boyd,1989-02-01 This symposium attracted 82 papers which were presented orally or as posters Fourteen invited speakers presented state of the art reviews and aspects of future key topics in this increasingly important area of materials science The high level of scientific presentation during the conference enhanced the aim of the symposium which was to stimulate discussion amongst materials scientists chemists engineers and physicists with a common interest in this field and to disseminate knowledge of progress **Computational Fluid Dynamics with Moving Boundaries** Wei Shyy,H. S. Udaykumar,Madhukar M. Rao,Richard W. Smith,2012-08-21 This text describes several computational techniques that can be applied to a variety of problems in thermo fluid physics multi phase flow and applied mechanics involving moving flow boundaries Step by step discussions of numerical procedures include multiple examples that employ algorithms in problem solving In addition to its survey of contemporary numerical techniques this volume discusses formulation and computation strategies as well as applications in many fields Researchers and professionals in aerospace chemical mechanical and materials engineering will find it a valuable resource It is also an appropriate textbook for advanced courses in fluid dynamics computation fluid dynamics heat transfer and numerical methods **Advances in Thin-Film Solar Cells** I M Dharmadasa,2012-09-17 This book concentrates on the latest developments in our understanding of solid state device physics The material presented is mainly experimental and based on CdTe thin film solar cells It extends these new findings to CIGS thin film solar cells and presents a new device design based on graded bandgap multilayer solar cells This design has been experimentally tested using the well researched GaAs AlGaAs system and initial devices have shown impressive device parameters These devices are capable of absorbing all radiation UV visible and infra red within the solar spectrum and combines impact ionization and impurity photovoltaic effects The improved device understanding presented in this book should impact and guide future device design and low cost thin film solar panel manufacture 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 **Springer Handbook of Electronic and Photonic Materials** Safa Kasap,Peter Capper,2017-10-04 The second updated edition of this essential reference book provides a wealth of detail on a wide range of electronic and photonic materials starting from fundamentals and building up to advanced topics and applications Its extensive coverage with clear illustrations and applications carefully selected chapter sequencing and logical flow makes it very different from other electronic materials handbooks It has been written by professionals in the field and instructors who teach the subject at a university or in corporate laboratories The Springer Handbook of Electronic and Photonic Materials second edition includes practical applications used as examples details of experimental techniques useful tables that summarize equations and most importantly properties of various materials as well as an extensive glossary Along with significant updates to the content and the references the second edition includes a number of new chapters such as those covering novel materials and selected applications This handbook is a valuable resource for graduate students researchers and practicing professionals working in the area of electronic optoelectronic and photonic materials **Advances In Numerical Heat Transfer** W. Minkowycz,1996-11-01 This is the first volume in the series It analyzes several fundamental methodology issues in numerical heat transfer and fluid flow and identifies certain areas of active application The finite volume approach is presented with the finite element methods as well as with energy balance analysis Applications include the latest development in turbulence modeling and current approaches to inverse problems **Copper Zinc Tin Sulfide-Based Thin-Film Solar Cells** Kentaro Ito,2015-02-23 Beginning with an overview and historical background of Copper Zinc Tin Sulphide CZTS technology subsequent chapters cover properties of CZTS thin films different preparation methods of CZTS thin films a comparative study of CZTS and CIGS solar cell computational approach and future applications of CZTS thin film solar modules to both ground mount and rooftop installation The semiconducting compound CZTS is made up earth abundant low cost and non toxic elements which make it an ideal candidate to replace Cu In Ga Se2 CIGS and CdTe solar cells which face material scarcity and toxicity issues The device performance of CZTS based thin film solar cells has been steadily improving over the past 20 years and they have now reached near commercial efficiency levels 10% These achievements prove that CZTS based solar cells have the potential to be used for large scale deployment of photovoltaics With contributions from leading researchers from academia and industry many of these authors have contributed to the improvement of its efficiency and have rich experience in preparing a variety of semiconducting thin films for solar cells **Ternary and Multinary Compounds** R.D Tomlinson,A.E Hill,R.D Pilkington,2020-10-29 Multinary compounds are now used in a wide range of devices including photovoltaic solar cells light

emitters and detectors and piezoelectric actuators Ternary and Multinary Compounds provides an interdisciplinary forum for scientists and engineers working on fundamental and applied aspects of these materials The volume focuses on optoelectronic properties electronic band structure charge carrier transport optical and magnetic properties and superconductivity It includes chapters on the research and development of new techniques and novel materials such as laser ablation deposition and ferroelectrics **Light Scattering in Solids VI** Manuel Cardona,Gernot Güntherodt,2005-07-31 This is the sixth volume of a well established and popular series in which expert practitioners discuss topical aspects of light scattering in solids This volume discusses recent results of Raman spectroscopy of high Tc superconductors organic polymers rare earth compounds semimagnetic superconductors and silver halides as well as developments in the rapidly growing field of time resolved Raman spectroscopy Emphasis is placed on obtaining information about elementary excitations the basic properties of materials and the use of Raman spectroscopy as an analytical tool This volume may be regarded as an encyclopedia of condensed matter physics from the viewpoint of the Raman spectroscopist It will be useful to advanced students and to all researchers who apply Raman spectroscopy in their work Photovoltaics for the 21st Century 7 M. Tao,C. Claeys,L. Deligianni,J.-G. Park,K. Rajeshwar,M. Sunkara,2011

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