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Narrow Gap Cadmium- based Compounds

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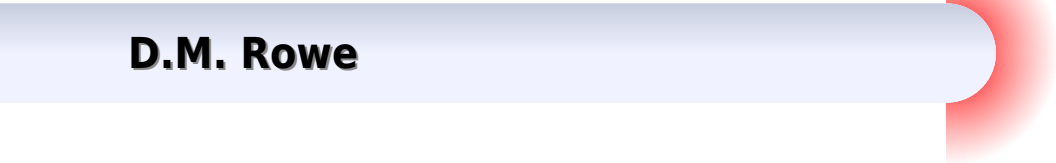
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Properties of Narrow Gap Cadmium-based Compounds Peter Capper, 1994 This highly structured volume contains sections on growth and device aspects of mercury cadmium telluride MCT

Narrow-gap Semiconductor Photodiodes Antoni Rogalski, Krzysztof Adamiec, Jaroslaw Rutkowski, 2000 In this monograph investigations of the performance of narrow gap semiconductor photodiodes are presented and recent progress in different IR photodiode technologies is discussed HgCdTe photodiodes InSb photodiodes alternatives to HgCdTe III V and II VI ternary alloy photodiodes lead chalcogenide photodiodes and a new class of photodiodes based on two dimensional solids Investigations of the performance of photodiodes operated in different spectral regions are presented

Narrow-gap II-VI Compounds for Optoelectronic and Electromagnetic Applications Peter Capper, 1997-10-31 The field of narrow gap II VI materials is dominated by the compound mercury cadmium telluride MCT or $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ By varying the x value material can be made to cover all the important infrared IR ranges of interest It is probably true to say that MCT is the third most studied semiconductor after silicon and gallium arsenide As current epitaxial layers of MCT are mainly grown on bulk CdTe family substrates these materials are included in this book although strictly of course they are not narrow gap This book is intended for readers who are either new to the field or are experienced workers in the field who need a comprehensive and up to date view of this rapidly expanding area To satisfy the needs of the first group each chapter discusses the principles underlying each topic and some of the historical background before bringing the reader the most recent information available For those currently in the field the book can be used as a collection of useful data as a guide to the literature and as an overview of topics covering the wide range of work areas

Infrared and Terahertz Detectors, Third Edition Antoni Rogalski, 2019-01-10 This new edition of Infrared and Terahertz Detectors provides a comprehensive overview of infrared and terahertz detector technology from fundamental science to materials and fabrication techniques It contains a complete overhaul of the contents including several new chapters and a new section on terahertz detectors and systems It includes a new tutorial introduction to technical aspects that are fundamental for basic understanding The other dedicated sections focus on thermal detectors photon detectors and focal plane arrays

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 understand

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 and optoelectronics Provides a comprehensive overview of mid infrared photodetectors and light sources and the latest materials and devices Reviews emerging areas of research in the field of mid infrared optoelectronics including new materials such as wide bandgap materials chalcogenides and new approaches like heterogeneous integration Includes information on the most relevant applications in industry like gas sensing spectroscopy and imaging

Single Crystals of Electronic Materials Roberto Fornari, 2018-09-18 Single Crystals of Electronic Materials Growth and Properties is a complete overview of the state of the art growth of bulk semiconductors It is not only a valuable update on the body of information on crystal growth of well established electronic materials such as silicon III V II VI and IV VI semiconductors but also includes chapters on novel semiconductors such as wide bandgap oxides like ZnO Ga₂O₃ In₂O₃ Al₂O₃ nitrides AlN and GaN and diamond Each chapter focuses on a specific material providing a comprehensive overview that includes applications and requirements thermodynamic properties schematics of growth methods and more Presents the latest research and most comprehensive overview of both standard and novel semiconductors Provides a systematic examination of important electronic materials including their applications growth methods properties technologies and defect and doping issues Takes a close look at emerging materials including wide bandgap oxides nitrides and diamond

Optical Constants of Crystalline and Amorphous Semiconductors Sadao Adachi, 2013-11-27 Knowledge of the refractive indices and absorption coefficients of semiconductors is especially important in the design and analysis of optical and optoelectronic devices The determination of the optical constants of semiconductors at energies beyond the fundamental absorption edge is also known to be a powerful way of studying the electronic energy band structures of the semiconductors The purpose of this book is to give tabulated values and graphical information on the optical constants of the most popular semiconductors over the entire spectral range This book presents data on the optical constants of crystalline and amorphous semiconductors A complete set of the optical constants are presented in this book They are the complex dielectric constant $\epsilon = \epsilon' + i\epsilon''$ complex refractive index $n = n' + ik$ absorption coefficient α and normal incidence reflectivity R The semiconductor materials considered in this book are the group IV elemental and binary III V IT VI IV VI binary semiconductors and their alloys The reader will find the companion book Optical Properties of Crystalline and Amorphous Semiconductors Materials and Fundamental Principles useful since it emphasizes the basic material properties and fundamental principles

Infrared Detectors and Emitters: Materials and Devices Peter Capper, C.T. Elliott, 2013-11-27 Infrared IR detectors fall into two main categories thermal and photon The earliest detectors of IR were thermal in nature e.g. thermometers The subsequent developments of these detectors such as thermopiles resistance bolometers Golay cells and pyroelectric detectors can operate at ambient temperature but have

disadvantages of insensitivity and slowness A wide variety of semiconductor photon detectors have been developed and these possess very high sensitivity high frequency response but have the disadvantage of needing cryogenic cooling particularly at longer wavelengths In the main the applications have been in the military sphere but widespread industrial and scientific applications also exist The majority of development funding for these semiconducting IR detectors has however come from military sources This book is an attempt to provide an up to date view of the various IR detector emitter materials systems currently in use or being actively researched The book is aimed at newcomers to the field and at those already working in the IR industry It is hoped that the former will find the book readable both as an introductory text and as a useful guide to the literature Workers in one of the various IR areas will hopefully find the book useful in bringing them up to date with other sometimes competing technologies To both groups of readers we trust that the book will prove interesting thought provoking and a spur to further progress in this fascinating and challenging field of endeavour

Properties, Growth and Applications of Diamond A. J. Neves, Maria Helena Nazaré, 2001 Recent breakthroughs in the synthesis of diamond have led to increased availability at lower cost This has spurred R D into its characterization and application in machine tools optical coatings X ray windows and light emitting optoelectronic devices This book draws together expertise from some 60 researchers in Europe and the USA working on bulk and thin film diamond All fully refereed the contributions are combined to form a highly structured volume with reviews evaluations tables and illustrative material together with expert guidance to the literature

Properties of Crystalline Silicon Robert Hull, 1999 A unique and well organized reference this book provides illuminating data distinctive insight and expert guidance on silicon properties

Thermoelectrics Handbook D.M. Rowe, 2018-10-03 Ten years ago D M Rowe introduced the bestselling CRC Handbook of Thermoelectrics to wide acclaim Since then increasing environmental concerns desire for long life electrical power sources and continued progress in miniaturization of electronics has led to a substantial increase in research activity involving thermoelectrics Reflecting the latest trends and developments the Thermoelectrics Handbook Macro to Nano is an extension of the earlier work and covers the entire range of thermoelectrics disciplines Serving as a convenient reference as well as a thorough introduction to thermoelectrics this book includes contributions from 99 leading authorities from around the world Its coverage spans from general principles and theoretical concepts to material preparation and measurements thermoelectric materials thermoelements modules and devices and thermoelectric systems and applications Reflecting the enormous impact of nanotechnology on the field as the thermoelectric properties of nanostructured materials far surpass the performance of conventional materials each section progresses systematically from macro scale to micro nano scale topics In addition the book contains an appendix listing major manufacturers and suppliers of thermoelectric modules There is no longer any need to spend hours plodding through the journal literature for information The Thermoelectrics Handbook Macro to Nano offers a timely comprehensive treatment of all areas of thermoelectrics in a single unified reference

MEMS Packaging Tai-Ran

Hsu,2004 This book covers the entire spectrum of assembly packaging and testing of MEMs microelectro mechanical systems and microsystems from essential enabling technologies to applications in key industries of life sciences telecommunications and aerospace engineering *Process Technology for Silicon Carbide Devices* Carl-Mikael Zetterling,2002 This book explains why SiC is so useful in electronics gives clear guidance on the various processing steps growth doping etching contact formation dielectrics etc and describes how these are integrated in device 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 **Properties of Amorphous Carbon** S. R. P. Silva,2003 World experts in amorphous carbon have been drawn together to produce this comprehensive commentary on the current state and future prospects of amorphous carbon a highly functional material Amorphous carbon has a wide range of properties that are primarily controlled by the different bond hybridisations possible in such materials This allows for the growth of an extensive range of thin films that can be tailored for specific applications Films can range from those with high transparency and which are hard and diamond like through to those which are opaque soft and graphitic like Application areas including field emission cathodes MEMs electronic devices medical and optical coatings are now close to market *Properties of Lithium Niobate* Institution of Electrical Engineers,2002 The use of lithium niobate in signal filtering in TV sets and video cassette recorders is well established and it is finding increased application in optoelectronic modulation devices in DWDM dense wavelength division multiplexing fibre optic systems This fully illustrated volume brings electronic engineers materials scientists and physicists up to date by enlisting the expertise of active researchers and presenting their considered reviews **Properties of III-V Quantum Wells and Superlattices** P. K. Bhattacharya,Pallab Bhattacharya,1996 A finely structured state of the art review on controlled building of atomic scale multilayers where nanometric structures based on III V semiconductors have attracted particular attention *Properties of Silicon Carbide* Gary Lynn Harris,1995 This well structured and fully indexed book helps to understand and fully characterize

the SiC system *Compound Semiconductor* ,1999

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