

SPRINGER TRACTS IN MODERN PHYSICS

Volume 98

Narrow-Gap Semiconductors

G. Nimtz and B. Schlicht
Narrow-Gap Lead Salts

R. Dornhaus and G. Nimtz
The Properties and Applications of the
 $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ Alloy System



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Lev I. Berger



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Narrow-Gap Semiconductors ,2006-04-11 Device Physics of Narrow Gap Semiconductors Junhao Chu,Arden Sher,2009-10-13 Narrow gap semiconductors obey the general rules of semiconductor science but often exhibit extreme features of these rules because of the same properties that produce their narrow gaps Consequently these materials provide sensitive tests of theory and the opportunity for the design of innovative devices Narrow gap semiconductors are the most important materials for the preparation of advanced modern infrared systems Device Physics of Narrow Gap Semiconductors a forthcoming second book offers descriptions of the materials science and device physics of these unique materials Topics covered include impurities and defects recombination mechanisms surface and interface properties and the properties of low dimensional systems for infrared applications This book will help readers to understand not only semiconductor physics and materials science but also how they relate to advanced opto electronic devices The final chapter describes the device physics of photoconductive detectors photovoltaic infrared detectors super lattices and quantum wells infrared lasers and single photon infrared detectors **Narrow Gap Semiconductors 1995** J.L Reno,2020-11-25 Narrow Gap Semiconductors 1995 contains the invited and contributed papers presented at the Seventh International Conference on Narrow Gap Semiconductors held in January 1995 The invited review papers provide an overview and the contributed papers provide in depth coverage of research results across the whole field **Physics and Properties of Narrow Gap Semiconductors** Junhao Chu,Arden Sher,2007-11-21 Narrow gap semiconductors obey the general rules of semiconductor science but often exhibit extreme features of these rules because of the same properties that produce their narrow gaps Consequently these materials provide sensitive tests of theory and the opportunity for the design of innovative devices For example narrow gap semiconductors are the most important materials for the preparation of advanced modern infrared systems In this book the authors offer clear descriptions of crystal growth and the fundamental structure and properties of these unique materials Topics covered include band structure optical and transport properties and lattice vibrations and spectra A thorough treatment of the properties of low dimensional systems and their relation to infrared applications is provided In addition to covering the technology of photoconductive detectors photovoltaic detectors metal insulator semiconductor devices quantum well infrared photodetectors infrared lasers and single photon detectors Physics and Properties of Narrow Gap Semiconductors helps readers to understand semiconductor physics and related areas of materials science and how they relate to advanced opto electronic devices *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 Semiconductors and Related Materials** ,1990 Encyclopedia of Plasma Technology - Two Volume Set J. Leon Shohet,2016-12-12 Technical plasmas have a wide range of industrial applications The Encyclopedia of Plasma Technology covers all aspects of plasma technology from the fundamentals to a range of applications across a large number

of industries and disciplines Topics covered include nanotechnology solar cell technology biomedical and clinical applications electronic materials sustainability and clean technologies The book bridges materials science industrial chemistry physics and engineering making it a must have for researchers in industry and academia as well as those working on application oriented plasma technologies Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

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

Advances in Infrared Photodetectors, 2011-05-03 Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors Originally widely known as the Willardson and Beer Series it has succeeded in publishing numerous landmark volumes and chapters The series publishes timely highly relevant volumes intended for long term impact and reflecting the truly interdisciplinary nature of the field The volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry Written and edited by internationally renowned experts Relevant to a wide readership physicists chemists materials scientists and device engineers in academia scientific laboratories and modern industry

Physics of Semiconductor Devices K. N. Bhat, A. Dasgupta, 2004 Contributed papers of the workshop held at IIT Madras in 2003

Handbook of Optical Constants of Solids, Five-Volume Set Edward D. Palik, 1997-12-10 This set of five volumes four volumes edited by Edward D Palik and a volume by Gorachand Ghosh is a unique resource for any science and technology library It provides materials researchers and optical device designers with reference facts in a context not available anywhere else The singular functionality of the set derives from the unique format for the three core volumes that comprise the Handbook of Optical Constants of Solids The Handbook satisfies several essential needs first it affords the most comprehensive database of the refractive index and extinction or loss coefficient of technically important and scientifically interesting dielectrics This data has been critically selected and

evaluated by authorities on each material Second the dielectric constant database is supplemented by tutorial chapters covering the basics of dielectric theory and reviews of experimental techniques for each wavelength region and material characteristic As an additional resource two of the tutorial chapters summarize the relevant characteristics of each of the materials in the database The data in the core volumes have been collected and analyzed over a period of twelve years with the most recent completed in 1997 The volumes systematically define the dielectric properties of 143 of the most engaging materials including metals semiconductors and insulators Together the three Palik books contain nearly 3 000 pages with about 2 3 devoted to the dielectric constant data The tutorial chapters in the remaining 1 3 of the pages contain a wealth of information including some dielectric data Hence the separate volume Index to Handbook of Optical Constants of Solids which is included as part of the set substantially enhances the utility of the Handbook and in essence joins all the Palik volumes into one unit It is then of great importance to users of the set A final volume rounds out the set The Handbook of Thermo Optic Coefficients of Optical Materials with Applications collects refractive index measurements and their temperature dependence for a large number of crystals and glasses Mathematical models represent these data and in turn are used in the design of nonlinear optical devices Unique source of extremely useful optical data for a very broad community of scientists researchers and practitioners Will be of great practical applicability to both industry and research Presents optical constants for a broadest spectral range for a very large number of materials Paliks three volumes include 143 materials including 43 elements Ghosh's volume includes some 70 technologically interesting crystals and many commercial glasses Includes a special index volume that enables the user to search for the information in the three Palik volumes easily and quickly Critique chapters in the Palik volumes discuss the data and give reference to most of the literature available for each material Presents various techniques for measuring the optical constants and mathematical models for analytical calculations of some data

Field Effect in Semiconductor-Electrolyte Interfaces Pavel P. Konorov, Adil M. Yafyasov, Vladislav B. Bogevolnov, 2021-01-12

This book presents a state of the art understanding of semiconductor electrolyte interfaces It provides a detailed study of semiconductor electrolyte interfacial effects focusing on the physical and electrochemical foundations that affect surface charge capacitance conductance quantum effects and other properties both from the point of view of theoretical modeling and metrology The wet dry interface where solid state devices may be in contact with electrolyte solutions is of growing interest and importance This is because such interfaces will be a key part of hydrogen energy and solar cells and of sensors that would have wide applications in medicine genomics environmental science and bioterrorism prevention The field effect presented here by Pavel Konorov Adil Yafyasov and Vladislav Bogevolnov is a new method one that allows investigation of the physical properties of semiconductor and superconductor surfaces Before the development of this method it was impossible to test these surfaces at room temperature The behavior of electrodes in electrolytes under such realistic conduction conditions has been a major problem for the technical realization of

systems that perform measurements in wet environments This book also describes some material properties that were unknown before the development of the field effect method This book will be of great interest to students and engineers working in semiconductor surface physics electrochemistry and micro and nanoelectronics

Characterization in Compound Semiconductor Processing Yale Strausser, Gary E. McGuire, 2010

Characterization in Compound Semiconductor Processing is for scientists and engineers working with compound semiconductor materials and devices who are not characterization specialists Materials and processes typically used in R D and in the fabrication of GaAs GaAlAs InP and HgCdTe based devices provide examples of common analytical problems The book discusses a variety of characterization techniques to provide insight into how each individually or in combination might be used in solving problems associated with these materials The book will help in the selection and application of the appropriate analytical techniques by its coverage of all stages of materials or device processing substrate preparation epitaxial growth dielectric film deposition contact

formation and dopant introduction P 4 of cover **Electronic Devices Architectures for the NANO-CMOS Era** Simon Deleonibus, 2019-05-08 In this book internationally recognized researchers give a state of the art overview of the electronic device architectures required for the nano CMOS era and beyond Challenges relevant to the scaling of CMOS

nanoelectronics are addressed through different core CMOS and memory device options in the first part of the book The second part reviews new device concepts for nanoelectronics beyond CMOS The book covers the fundamental limits of core CMOS improving scaling by the introduction of new materials or processes new architectures using SOI multigates and multichannels and quantum computing *Soviet Physics*, 1992 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 Lead Chalcogenides D.

Khokhlov,2021-12-16 Lead Chalcogenides remain one of the basic materials of modern infrared optoelectronics This volume presents the properties of lead chalcogenides including the basic physical features the bulk and epitaxial growth technique and the 2 D physics of lead chalcogenide based structures In addition the theoretical approaches for band structure and impurity state calculations are reviewed Semiconductor Materials Lev I. Berger,2020-12-17 Semiconductor Materials presents physico chemical electronic electrical elastic mechanical magnetic optical and other properties of a vast group of elemental binary and ternary inorganic semiconductors and their solid solutions It also discusses the properties of organic semiconductors Descriptions are given of the most commonly used semiconductor devices charge coupled devices field effect transistors unijunction transistors thyristors Zener and avalanche diodes and photodiodes and lasers The current trend of transitioning from silicon technology to gallium arsenide technology in field effect based electronic devices is a special feature that is also covered More than 300 figures and 100 tables highlight discussions in the text and more than 2 000 references guide you to further sources on specific topics Semiconductor Materials is a relatively compact book containing vast information on semiconductor material properties Readers can compare results of the property measurements that have been reported by different authors and critically compare the data using the reference information contained in the book Engineers who design and improve semiconductor devices researchers in physics and chemistry and students of materials science and electronics will find this a valuable guide **Springer Tracts in Modern Physics** ,1982 Infrared Detectors and Systems E. L. Dereniak,G. D. Boreman,1996 Infrared Detectors and Systems offers a deep and detailed examination of the optical detection process and the electronics of mimicking the eye It further explores recent research in new detector materials and the latest advances in optical detectors This text covers the range of subjects necessary for the understanding of modern infrared imaging systems at a level appropriate for seniors or first year graduate students in physics or electrical engineering The first six chapters focus on fundamental background issues of radiation detection beginning with the basics of geometrical optics and finishing with a discussion of the figures of merit used for describing the signal to noise performance of a detector system Other topics include radiometry and flux transfer issues basic radiation detector mechanisms and random process mathematics The book concludes with a close look at infrared detection systems and related issues In the discussion of infrared search systems the range equation is developed in terms of the optical and detector parameters of the system A separate chapter is devoted to modulation transfer function a spatial frequency domain description of image quality The final chapter describes the design equations for thermal imager systems in terms of noise equivalent temperature difference and minimum resolvable temperature Supported and clarified by 470 illustrations and accompanied by an extensive glossary of the nomenclature this is an excellent text for graduate and senior level courses in radiometry and infrared detectors It is also a valuable reference for practicing engineers involved in the use design analysis and testing of infrared detector based systems

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