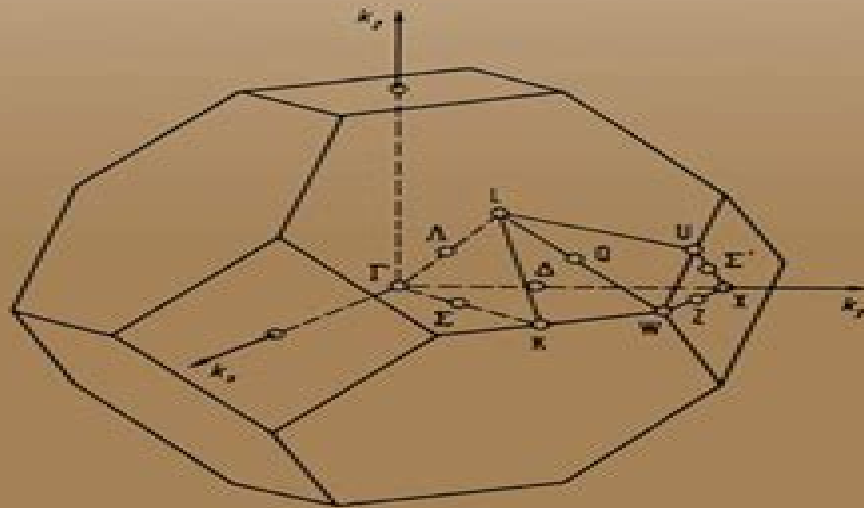


*Data in
Science and Technology*

Semiconductors

Group IV Elements and III-V Compounds



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Semiconductors Group Iv Elements And Iii V Compounds Data In Science And Technology

**O. Madelung, W. von der Osten, U.
Rössler**



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Semiconductors Otfried Madelung, 1991-03-18 The frequent use of well known critical data handbooks like Beilstein Gmelin and Landolt Bornstein is impeded by the fact that merely larger libraries often far away from the scientist's working place can afford such precious collections To satisfy an urgent need of many scientists for having at their working place a comprehensive high quality but cheap collection of at least the basic data of their field of interest the series Data in Science and Technology is started now This first volume presents the most important data on two groups of semiconductors the elements of the IVth group of the periodic system and the III V compounds All data were compiled from information on about 2500 pages in various volumes of the New Series of Landolt Bornstein For each critically chosen data set and each figure the original literature is cited In addition tables of content refer to the handbooks the data were drawn from Thus the presentation of data in this volume is of the same high quality standard as in the original evaluated data collections We hope to meet the needs of the physical community with the volumes of the series Data in Science and Technology forming bridges between the laboratory and additional information sources in the libraries

Semiconductors Otfried Madelung, 1991-03-18 The large handbooks in physics chemistry and other disciplines contain data needed every day and additional data as important as the others but needed only at longer time intervals Thus a new series Data in Science and Technology has been founded which besides the basic data contains a full list of contents of the respective volumes the data were drawn from Hence the user is informed what additional information is held at his disposal in the more complete handbooks i e the Data in Science and Technology provide a bridge from the laboratory to the library The third volume contains information about semiconductors others than group IV elements and III V compounds It is an extension of the first volume on group IV elements and III V compounds and contains data and further information about some hundred other semiconducting substances

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Semiconductors Otfried Madelung, 1992 Continues the series providing the data most used by physicists chemists and other scientists making it more quickly accessible than from the larger references manuals Presents in tabular or graphic form information on about a hundred semiconductor materials other than those covered in the first volume Indexed only by substance Annotation copyrighted by Book News Inc Portland OR **III-V**

Compound Semiconductors and Devices Keh Yung Cheng, 2020-11-08 This textbook gives a complete and fundamental introduction to the properties of III V compound semiconductor devices highlighting the theoretical and practical aspects of their device physics Beginning with an introduction to the basics of semiconductor physics it presents an overview of the physics and preparation of compound semiconductor materials as well as a detailed look at the electrical and optical properties of compound semiconductor heterostructures The book concludes with chapters dedicated to a number of heterostructure electronic and photonic devices including the high electron mobility transistor the heterojunction bipolar transistor lasers unipolar photonic devices and integrated optoelectronic devices Featuring chapter end problems suggested references for further reading as well as clear didactic schematics accompanied by six information rich appendices this textbook is ideal for graduate students in the areas of semiconductor physics or electrical engineering In addition up to date results from published research make this textbook especially well suited as a self study and reference guide for engineers and researchers in related industries

Intrinsic Properties of Group IV Elements and III-V, II-VI and I-VII Compounds / Intrinsische Eigenschaften Von Elementen Der IV. Gruppe und Von III-V-, II-VI- und I-VII-Verbindungen

O. Madelung, W. von der Osten, U. Rössler, 1986-12 *Lattice Properties* U. Rössler, D. Strauch, 2001-07-18 Volumes III 17a i and III 22a b supplement on semiconductor physics and technology have been published earlier the latter covering new data on the technologically important group IV elements and III V II VI and I VII compounds only The wealth of further data from the last decade is now being critically evaluated by over 30 well known experts in the field of semiconductors To meet the demands of today s scientists and to offer a complete overview of semiconductor data all data available so far are published in the following way a series of five subvolumes covers only the supplementary data to volumes III 17 and 22 Each subvolume includes a CD ROM containing a complete revised and updated edition of all relevant data For each individual substance the information is presented in user friendly documents containing data figures and references Easy access to the documents is provided via substance and property keywords listings and full text retrieval *Lattice Properties* U. Rössler, D. Strauch, 2001-07-18 Volumes III 17a i and III 22a b supplement on semiconductor physics and technology have been published earlier the latter covering new data on the technologically important group IV elements and III V II VI and I VII compounds only The wealth of further data from the last decade is now being critically evaluated by over 30 well known experts in the field of semiconductors To meet the demands of today s scientists and to offer a complete overview of semiconductor data all data available so far are published in the following way a series of five subvolumes covers only the supplementary data to volumes III 17 and 22 Each subvolume includes a CD ROM containing a complete revised and updated edition of all relevant data For each individual substance the information is presented in user friendly documents containing data figures and references Easy access to the documents is provided via substance and property keywords listings and full text retrieval **Group IV Elements** C.A.J. Ammerlaan, H. Bracht, E.E.

Haller, R. Murray, R.C. Newman, R. Sauer, N.A. Stolwijk, J. Weber, W. Zulehner, 2002-04-02 Vols III 17a i and III 22a b supplement on semiconductor physics and technology have been published earlier the latter covering new data on the technologically important group IV elements IV IV and III V compounds only The wealth of further data from the last decade is now being critically evaluated by over 30 well known experts in the field of semiconductors To meet the demands of today s scientists and to offer a complete overview on semiconductor data all data available so far are published in the following way a series of eight subvolumes cover only the supplementary data to vols III 17 and 22 Enclosed to each subvolume a CD ROM contains a complete revised and update edition of all relevant data For each individual substance the information is presented in userfriendly documents containing numerical data figures and references Easy access to the documents is provided via substance and property keywords listing and full text retrieval

Semiconductors O. Madelung, 2012-12-06 In the New Series of Landolt Bornstein the eleven volumes III 17a i and III 22a b present data on the properties of semiconductors on more than 6 000 pages with tables and about 10 000 figures The aim of the Series Data in Science and Technology is to built a bridge between the libraries where such comprehensive handbooks are situated and the laboratory The first volume of this series published in 1991 contains data on the most important groups of semiconductors the group IV elements and the III V compounds From the wealth of data in the tables and figures of the Landolt Bornstein volumes III 17a and III 22a b about 10% were condensed into this first volume It seemed not appropriate to condense to the same extent all the other material of the remaining nine subvolumes into several further DST volumes Instead of it all remaining data have been put into the present volume To do this some severe restrictions became necessary They are explained in the Introduction and the reader is asked to read it before using this book I would further like to focus the attention of the reader on chapter 8 where the bridge between this DST volume and the LB sources is built by cross references between both books I do hope that this volume meets the needs of the physical community as a quick reference to basic semiconductor data and an access to the larger data collections on this field of physics

CRC Handbook of Chemistry and Physics, 96th Edition William M. Haynes, 2015-06-09 Proudly serving the scientific community for over a century this 96th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference mirroring the growth and direction of science This venerable work continues to be the most accessed and respected scientific reference in the world An authoritative resource consisting of tables of data and current international recommendations on nomenclature symbols and units its usefulness spans not only the physical sciences but also related areas of biology geology and environmental science The 96th edition of the Handbook includes 18 new or updated tables along with other updates and expansions A new series highlighting the achievements of some of the major historical figures in chemistry and physics was initiated with the 94th edition This series is continued with this edition which is focused on Lord Kelvin Michael Faraday John Dalton and Robert Boyle This series which provides biographical information a list of major achievements and notable quotations attributed to each of the

renowned chemists and physicists will be continued in succeeding editions Each edition will feature two chemists and two physicists The 96th edition now includes a complimentary eBook with purchase of the print version This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach New Tables Section 1 Basic Constants Units and Conversion Factors Descriptive Terms for Solubility Section 8 Analytical Chemistry Stationary Phases for Porous Layer Open Tubular Columns Coolants for Cryotrapping Instability of HPLC Solvents Chlorine Bromine Combination Isotope Intensities Section 16 Health and Safety Information Materials Compatible with and Resistant to 72 Percent Perchloric Acid Relative Dose Ranges from Ionizing Radiation Updated and Expanded Tables Section 6 Fluid Properties Sublimation Pressure of Solids Vapor Pressure of Fluids at Temperatures Below 300 K Section 7 Biochemistry Structure and Functions of Some Common Drugs Section 9 Molecular Structure and Spectroscopy Bond Dissociation Energies Section 11 Nuclear and Particle Physics Summary Tables of Particle Properties Table of the Isotopes Section 14 Geophysics Astronomy and Acoustics Major World Earthquakes Atmospheric Concentration of Carbon Dioxide 1958 2014 Global Temperature Trend 1880 2014 Section 15 Practical Laboratory Data Dependence of Boiling Point on Pressure Section 16 Health and Safety Information Threshold Limits for Airborne Contaminants [CRC Handbook of Chemistry and Physics](#) William M. Haynes, 2014-06-04 Proudly serving the scientific community for over a century this 95th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference mirroring the growth and direction of science This venerable work continues to be the most accessed and respected scientific reference in the world An authoritative resource consisting of tables of data and current international recommendations on nomenclature symbols and units its usefulness spans not only the physical sciences but also related areas of biology geology and environmental science The 95th Edition of the Handbook includes 22 new tables and major updates and expansions A new series highlighting the achievements of some of the major historical figures in chemistry and physics was initiated with the 94th edition This series is continued with this edition which is focused on Galileo Galilei James Clerk Maxwell Marie Sklodowska Curie and Linus Carl Pauling This series which provides biographical information a list of major achievements and notable quotations attributed to each of the renowned chemists and physicists will be continued in succeeding editions Each edition will feature two chemists and two physicists Available in traditional print format as an eBook and online this reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach New tables Section 8 Analytical Chemistry Figures of Merit Common Symbols Used in Gas and Liquid Chromatographic Schematic Diagrams Varieties of Hyphenated Gas Chromatography with Mass Spectrometry Section 15 Practical Laboratory Data Standard Fittings for Compressed Gas Cylinders Plug and Outlet Configurations for Common Laboratory Devices Section 16 Health and Safety Information Abbreviations Used in the Assessment and Presentation of Laboratory Hazards Incompatible Chemicals Explosion Shock Hazards Water Reactive Chemicals Testing Requirements for Peroxidizable Compounds Tests for the Presence of Peroxides

Pyrophoric Compounds Compounds That Are Reactive with Air Flammability Hazards of Common Solvents Selection of Laboratory Gloves Selection of Respirator Cartridges and Filters Selection of Protective Laboratory Garments Protective Clothing Levels Chemical Fume Hoods and Biological Safety Cabinets Gas Cylinder Safety and Stamped Markings Laser Hazards in the Laboratory General Characteristics of Ionizing Radiation for the Purpose of Practical Application of Radiation Protection Radiation Safety Units Significantly updated and expanded tables Section 1 Basic Constants Units and Conversion Factors Update of Standard Atomic Weights 2013 Update of Atomic Masses and Abundances Section 8 Analytical Chemistry Expansion of Abbreviations and Symbols Used in Analytical Chemistry Section 9 Molecular Structure and Spectroscopy Update of Bond Dissociation Energies Section 12 Properties of Solids Major update and Expansion of Electron Stopping Powers Section 14 Geophysics Astronomy and Acoustics Major Update of Interstellar Molecules Update of Atmospheric Concentration of Carbon Dioxide 1958 2013 Update of Global Temperature Trend 1880 2013 Section 15 Practical Laboratory Data Major update of Reference Points on the ITS 90 Temperature Scale Update of Laboratory Solvents and Other Liquid Reagents Section 16 Health and Safety Information Update of Flammability of Chemical Substances Update of Threshold Limits for Airborne Contaminants to 2013 values Appendix B Update of Sources of Physical and Chemical Data

Spectroscopy of Semiconductors Wei Lu, Ying Fu, 2018-07-31 The science and technology related to semiconductors have received significant attention for applications in various fields including microelectronics nanophotonics and biotechnologies Understanding of semiconductors has advanced to such a level that we are now able to design novel system complexes before we go for the proof of principle experimental demonstration This book explains the experimental setups for optical spectral analysis of semiconductors and describes the experimental methods and the basic quantum mechanical principles underlying the fast developing nanotechnology for semiconductors Further it uses numerous case studies with detailed theoretical discussions and calculations to demonstrate the data analysis Covering structures ranging from bulk to the nanoscale it examines applications in the semiconductor industry and biomedicine Starting from the most basic physics of geometric optics wave optics quantum mechanics solid state physics it provides a self contained resource on the subject for university undergraduates The book can be further used as a toolbox for researching and developing semiconductor nanotechnology based on spectroscopy

Group IV Elements C.A.J. Ammerlaan, H. Bracht, E.E. Haller, R. Murray, R.C. Newman, R. Sauer, N.A. Stolwijk, J. Weber, W. Zulehner, 2002-04-02 Vols III 17a i and III 22a b supplement on semiconductor physics and technology have been published earlier the latter covering new data on the technologically important group IV elements IV IV and III V compounds only The wealth of further data from the last decade is now being critically evaluated by over 30 well known experts in the field of semiconductors To meet the demands of today s scientists and to offer a complete overview on semiconductor data all data available so far are published in the following way a series of eight subvolumes cover only the supplementary data to vols III 17 and 22 Enclosed to each subvolume a CD ROM contains a complete revised

and update edition of all relevant data For each individual substance the information is presented in userfriendly documents containing numerical data figures and references Easy access to the documents is provided via substance and property keywords listing and full text retrieval Processing and Properties of Compound Semiconductors ,2001-10-20 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer series as it is widely known has succeeded in producing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Optical Absorption of Impurities and Defects in Semiconducting Crystals Bernard Pajot,Bernard Clerjaud,2012-08-28 This book outlines with the help of several specific examples the important role played by absorption spectroscopy in the investigation of deep level centers introduced in semiconductors and insulators like diamond silicon germanium and gallium arsenide by high energy irradiation residual impurities and defects produced during crystal growth It also describes the crucial role played by vibrational spectroscopy to determine the atomic structure and symmetry of complexes associated with light impurities like hydrogen carbon nitrogen and oxygen and as a tool for quantitative analysis of these elements in the materials **Nanodiamonds** Jean-Charles Arnault,2017-04-25 Nanodiamonds Advanced Material Analysis Properties and Applications illustrates the complementarity of specific techniques to fully characterize nanodiamonds from their diamond core crystalline structure defects sp² carbon impurities strain to their surface surface chemistry stability of surface groups reactivity surface charge colloidal properties The relationship between physical and chemical parameters sits at the heart of what this book is about Recent advances in the synthesis of nanodiamonds either by HPHT or detonation are covered along with extended characterization of the core and surface of nanodiamonds focusing on the most advanced experimental tools developed for nanoscale diagnosis Each technique presented includes presentation of both principles and applications This combination of advanced characterizations offers readers a better understanding of the relationship that exists between physical and chemical parameters of nanodiamonds and their properties In particular the role of structural defects or chemical impurities is illustrated Toxicity of nanodiamonds for cells is also discussed as It is an essential issue for their bioapplications Final sections in the book cover the main promising new advances and applications of nanodiamonds the formation of hybrids and their use in polymer and oil composites Provides a focused analysis of the relationship between the physical chemical parameters and properties of

nanodiamonds Allows the reader to better understand the material characterization of nanodiamonds and how they can be most successfully used Presents R D scientists and engineers with the information they need to understand how nanodiamonds can be used to create more efficient products Includes novel applications for example the formation of hybrids based on nanodiamonds that are covered in detail *Frontiers of Nano-Optoelectronic Systems* Lorenzo Pavesi,Eugenia V. Buzaneva,2012-12-06 Since their discovery low dimensional materials have never stopped to intrigue scientists whether they are physicists chemists or biochemists Investigations of their nature and functions have always been and still are numerous and as soon as a solution is found for a given question another one is raised The coupling of nano materials with photonics i e nano photonics has produced a boiling pot of idea problems discovery and applications This statement is abundantly illustrated in the present book The interest in nano optoelectronic materials and systems is very widespread what gives a really international and multicultural flavour to nano optoelectronic meetings One of them was organized by our self in May 2000 in Kiev as a NATO Advanced Research Workshop and EC Spring School The arrival of the new millennium provides an obvious transition point at which many aspects of nano science and nano engineering of nano photonic systems can be assessed with respect to the research progresses made in the pre ceding decades and to the challenges that lie ahead in the coming decades This book was planed to mark this with the objective of presenting a collection of papers from experts which provide broad perspectives on the state of the art in the various disciplines of nano science and nano engineering and on the directions for future research *Group IV Elements* C.A.J. Ammerlaan,H. Bracht,E.E. Haller,R. Murray,R.C. Newman,R. Sauer,N.A. Stolwijk,J. Weber,W. Zulehner,2002-04-02 Vols III 17a i and III 22a b supplement on semiconductor physics and technology have been published earlier the latter covering new data on the technologically important group IV elements IV IV and III V compounds only The wealth of further data from the last decade is now being critically evaluated by over 30 well known experts in the field of semiconductors To meet the demands of today s scientists and to offer a complete overview on semiconductor data all data available so far are published in the following way a series of eight subvolumes cover only the supplementary data to vols III 17 and 22 Enclosed to each subvolume a CD ROM contains a complete revised and update edition of all relevant data For each individual substance the information is presented in userfriendly documents containing numerical data figures and references Easy access to the documents is provided via substance and property keywords listing and full text retrieval **Electrochemistry of Metal Chalcogenides** Mirtat Bouroushian,2010-04-23 The author provides a unified account of the electrochemical material science of metal chalcogenide MCh compounds and alloys with regard to their synthesis processing and applications Starting with the chemical fundamentals of the chalcogens and their major compounds the initial part of the book includes a systematic description of the MCh solids on the basis of the Periodic Table in terms of their structures and key properties This is followed by a general discussion on the electrochemistry of chalcogen species and the principles underlying the electrochemical formation of inorganic compounds alloys The core of the book

offers an insight into available experimental results and inferences regarding the electrochemical preparation and microstructural control of conventional and novel MCh structures. It also aims to survey their photoelectrochemistry both from a material oriented point of view and as connected to specific processes such as photocatalysis and solar energy conversion. Finally, the book illustrates the relevance of MCh materials to various applications of electrochemical interest such as electrocatalysis in fuel cells, energy storage with intercalation electrodes and ion sensing.

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