

Semiconductor and Metal Binary Systems

Phase Equilibria and
Chemical Thermodynamics

V. M. Glazov and
L. M. Pavlova

Semiconductor And Metal Binary Systems Phase Equilibria And Chemical Thermodynamics

Jacob Greenberg



Semiconductor And Metal Binary Systems Phase Equilibria And Chemical Thermodynamics:

Semiconductor and Metal Binary Systems V.M. Glazov, L.M. Pavlova, 1989-06-30 This book is devoted to the fundamentals of the theoretical analysis of phase equilibrium diagrams Phase diagrams are known to play an important role in metallurgy and materials science chemical engineering petroleum refining etc A study of phase diagrams can help in choosing the optimal composition of mixtures and alloys and in determining the appropriate conditions for their thermal treatment as well as in determining the efficiency of such processes as distillation rectification zone refining and controlled crystallization for the separation and purification of materials In spite of this the extensive thermodynamic information which can be extracted from phase diagrams has scarcely been utilized until recently due to the of the analysis of phase equilibria comparatively poorly developed foundations We have attempted to present a general picture of the thermodynamic analysis of phase diagrams and to demonstrate the broad possibilities of this approach in elucidating the nature of the interaction of the components and the structure of the phases This book summarizes research carried out at the Moscow Institute of Electronic Engineering over the past decade Extensive summaries of published data are also included In the course of our work we have made extensive use of modern computing methods which allowed solutions to be obtained to many problems

Semiconductor and Metal Binary Systems V.M. Glazov, L.M. Pavlova, 2013-05-14 This book is devoted to the fundamentals of the theoretical analysis of phase equilibrium diagrams Phase diagrams are known to play an important role in metallurgy and materials science chemical engineering petroleum refining etc A study of phase diagrams can help in choosing the optimal composition of mixtures and alloys and in determining the appropriate conditions for their thermal treatment as well as in determining the efficiency of such processes as distillation rectification zone refining and controlled crystallization for the separation and purification of materials In spite of this the extensive thermodynamic information which can be extracted from phase diagrams has scarcely been utilized until recently due to the of the analysis of phase equilibria comparatively poorly developed foundations We have attempted to present a general picture of the thermodynamic analysis of phase diagrams and to demonstrate the broad possibilities of this approach in elucidating the nature of the interaction of the components and the structure of the phases This book summarizes research carried out at the Moscow Institute of Electronic Engineering over the past decade Extensive summaries of published data are also included In the course of our work we have made extensive use of modern computing methods which allowed solutions to be obtained to many problems

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the separation and purification of materials. In spite of this the extensive thermodynamic information which can be extracted from phase diagrams has scarcely been utilized until recently due to the lack of the analysis of phase equilibria comparatively poorly developed foundations. We have attempted to present a general picture of the thermodynamic analysis of phase diagrams and to demonstrate the broad possibilities of this approach in elucidating the nature of the interaction of the components and the structure of the phases. This book summarizes research carried out at the Moscow Institute of Electronic Engineering over the past decade. Extensive summaries of published data are also included. In the course of our work we have made extensive use of modern computing methods which allowed solutions to be obtained to many problems.

Methods for Phase Diagram Determination Ji-Cheng Zhao, 2011-05-05 Phase diagrams are maps materials scientists often use to design new materials. They define what compounds and solutions are formed and their respective compositions and amounts when several elements are mixed together under a certain temperature and pressure. This monograph is the most comprehensive reference book on experimental methods for phase diagram determination. It covers a wide range of methods that have been used to determine phase diagrams of metals, ceramics, slags and hydrides. Extensive discussion on methodologies of experimental measurements and data assessments. Written by experts around the world covering both traditional and combinatorial methodologies. A must read for experimental measurements of phase diagrams.

Physical Chemistry of Semiconductor Materials and Processes, 2015-08-17 The development of solid state devices began a little more than a century ago with the discovery of the electrical conductivity of ionic solids. Today solid state technologies form the background of the society in which we live. The aim of this book is threefold: to present the background physical chemistry on which the technology of semiconductor devices is based; secondly to describe specific issues such as the role of defects on the properties of solids and the crucial influence of surface properties and ultimately to look at the physics and chemistry of semiconductor growth processes both at the bulk and thin film level together with some issues relating to the properties of nano devices. Divided into five chapters it covers Thermodynamics of solids including phases and their properties and structural order. Point defects in semiconductors. Extended defects in semiconductors and their interactions with point defects and impurities. Growth of semiconductor materials. Physical chemistry of semiconductor materials processing. With applications across all solid state technologies the book is useful for advanced students and researchers in materials science, physics, chemistry, electrical and electronic engineering. It is also useful for those in the semiconductor industry.

Solid-State Chemistry Ashok Kumar Jha, 2023-08-04 Solid state reactions have been growing in importance in the preparation of solids, crystal growth and single crystals of elements. In this new volume the author discusses in depth recent advances in solid state chemistry, the latest techniques of characterization of solids and several new dimensions of solid state problems. Solid state reactions, their kinetics, phase transitions and magnetic properties are discussed in detail along with electrical properties, semiconductors, metals and insulators with examples and explanations. Dielectric, piezoelectric and

ferroelectric properties of solids have been considered as well Different theories of catalysis and adsorption isotherms are covered and the author includes several experimental findings as well And of course preparation of new solids by taking advantage of recent experimental techniques have also been included in this volume This volume provides a complete description of solid state reactions electrical conductivity characterization of solids organic solids and intercalation between layers of solids The band theories of metals semiconductors and insulators are covered In characterization of solids TGA DTA DSC FTIR and PXRD techniques have been described Preparation and properties of organic solids are also explained Dielectric properties photovoltaic effects piezo electricity ferroelectricity and antiferroelectricity have been dealt with giving relatable examples A number of excitation energy levels giving rise to luminescence and photoluminescence have been explained under the topic optical processes Diamagnetic paramagnetic and ferromagnetic behaviors of solids are also explained

Ternary Alloys Based on III-V Semiconductors Vasyl Tomashyk, 2017-09-29 III V semiconductors have attracted considerable attention due to their applications in the fabrication of electronic and optoelectronic devices as light emitting diodes and solar cells Because of their wide applications in a variety of devices the search for new semiconductor materials and the improvement of existing materials is an important field of study This new book covers all known information about phase relations in ternary systems based on III V semiconductors This book will be of interest to undergraduate and graduate students studying materials science solid state chemistry and engineering It will also be relevant for researchers at industrial and national laboratories in addition to phase diagram researchers inorganic chemists and solid state physicists

New Technical Books New York Public Library, 1990

Materials Science of Carbides, Nitrides and Borides Yury G. Gogotsi, R.A. Andrievski, 2012-12-06 A survey of current research on a wide range of carbide nitride and boride materials covering the general issues relevant to the development and characterisation of a variety of advanced materials Topics include structure and electronic properties modeling processing high temperature chemistry oxidation and corrosion mechanical behaviour manufacturing and applications The volume complements more specialised books on specific materials as well as more general texts on ceramics or hard materials presenting a survey of materials research as a key to technological development After decades of research the materials are being used in electronics wear resistant refractory and other applications but numerous new applications are possible Roughly equal numbers of papers cover theoretical and experimental research in the general field of materials science of refractory materials Audience Researchers and graduate students in materials science and engineering

Scientific and Technical Aerospace Reports, 1989

Nuclear Science Abstracts, 1976

Molten Salts and Ionic Liquids Marcelle Gaune-Escard, Kenneth R. Seddon, 2012-07-02 For many years the related fields of molten salts and ionic liquids have drifted apart to their mutual detriment Both molten salts and ionic liquids are liquid salts containing only ions all that is different is the temperature Both fields involve the study of Coulombic fluids for academic and industrial purposes both employ the same principles both require skilled practitioners both speak the same language all then that is

truly different is their semantics and how superficial is that The editors of this book recognising that there was so much knowledge both empirical and theoretical which can be passed from the molten salt community to the ionic liquid community and vice versa organised a landmark meeting in Tunisia designed to bridge the gap and heal the rift Leaders from both communities met for a week for a mutual exchange with a high tutorial content intermixed with cutting edge findings This volume is a condensate of the principal offerings of that week and emphasises the success which was achieved Indeed four future biannual meetings under the title of EUCHEM Conferences on Molten Salts and Ionic Liquids have now been planned as a direct result of this meeting of minds Topics discussed in this volume include structure dynamics electrochemistry interfacial and thermodynamic properties spectroscopy synthesis and theoretical studies Experimental and theoretical methods for investigating these data are elaborated as are techniques for data collection and analysis This book represents the first serious discussion on the transfer of these methods and techniques between the differing temperature regimes and is a major contribution to the future of both fields

An Essential Guide to Electronic Material Surfaces and Interfaces Leonard J. Brillson, 2016-08-01 An Essential Guide to Electronic Material Surfaces and Interfaces is a streamlined yet comprehensive introduction that covers the basic physical properties of electronic materials the experimental techniques used to measure them and the theoretical methods used to understand predict and design them Starting with the fundamental electronic properties of semiconductors and electrical measurements of semiconductor interfaces this text introduces students to the importance of characterizing and controlling macroscopic electrical properties by atomic scale techniques The chapters that follow present the full range of surface and interface techniques now being used to characterize electronic optical chemical and structural properties of electronic materials including semiconductors insulators nanostructures and organics The essential physics and chemistry underlying each technique is described in sufficient depth for students to master the fundamental principles with numerous examples to illustrate the strengths and limitations for specific applications As well as references to the most authoritative sources for broader discussions the text includes internet links to additional examples mathematical derivations tables and literature references for the advanced student as well as professionals in these fields This textbook fills a gap in the existing literature for an entry level course that provides the physical properties experimental techniques and theoretical methods essential for students and professionals to understand and participate in solid state electronics physics and materials science research An Essential Guide to Electronic Material Surfaces and Interfaces is an introductory to intermediate level textbook suitable for students of physics electrical engineering materials science and other disciplines It is essential reading for any student or professional engaged in surface and interface research semiconductor processing or electronic device design

Thermodynamic Basis of Crystal Growth Jacob Greenberg, 2013-03-09 It is particularly symptomatic that a volume concerning P T X phase equilibrium should appear in the Materials Science Series Entering the 21st century progress in modern electronics is increasingly becoming associated

with devices based not only on silicon but also on chemical compounds. These include both semiconductors and in the last 15 years multinary oxides with high T_c superconductor properties. The critical role of chemical processes in the technologies of these materials is quite evident and in recent years has stimulated vigorous research activity in the physical chemistry of materials resulting in a renaissance of this field. The leading role in these efforts belongs to thermodynamics in particular computer modeling of chemical processes phase equilibrium and controlled synthesis of inorganic materials with preliminary fixed stoichiometric composition. Especially important contributions have been made regarding non stoichiometry and our understanding of the crucial relationship between composition and properties of the materials since the development of the vapor pressure scanning approach to the phenomenon of non stoichiometry. This method of the in situ investigation of the crystal composition directly at high temperatures [3, 4] proved to be of an unparalleled precision of 10^{-10} at % and made it possible to obtain in an analytical form functional dependences of the crystal composition on temperature pressure and composition of the crystallizing matrix for crystals with sub O 1 at % range of existence.

Quaternary Alloys Based on II - VI Semiconductors Vasyl Tomashyk, 2014-10-20 Doped by isovalent or heterovalent foreign impurities II VI semiconductor compounds enable control of optical and electronic properties making them ideal in detectors solar cells and other precise device applications. Quaternary alloys allow a simultaneous adjustment of band gap and lattice constant increasing radiant efficiency at a wide range.

Metals Abstracts Index, 1995 *Catalog of National Bureau of Standards Publications, 1966-1976: Key word index* United States. National Bureau of Standards. Technical Information and Publications Division, 1978

OAR, 1967

The Cumulative Book Index, 1994 A world list of books in the English language

The Curriculum Vitae Handbook Rebecca Anthony, Gerald Roe, 1998 Securing your place as a professional in the academic world is a fiercely competitive often depersonalized quest. Knowing how to effectively present and promote yourself through your curriculum vitae is a golden key to unlocking the right doors. Form publisher's description.

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