

Semiconductor and Metal Binary Systems

Phase Equilibria and
Chemical Thermodynamics

V. M. Glazov and
L. M. Pavlova

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WJ Hussar



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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.

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

Ternary Alloys Based on III-V Semiconductors Vasylyshyn,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

Basic Properties of Semiconductors P.T. Landsberg,2016-04-19

Since Volume 1 was published in 1982 the centres of interest in the basic physics of semiconductors have shifted Volume 1 was called Band Theory and Transport Properties in the first edition but the subject has broadened to such an extent that Basic Properties is now a more suitable title Seven chapters have been rewritten by the original authors However twelve chapters are essentially new with the bulk of this work being devoted to important current topics which give this volume an almost encyclopaedic form The first three chapters discuss various aspects of modern band theory and the next two analyze impurities in semiconductors Then follow chapters on semiconductor statistics and on surfaces interfaces and band offsets as they occur in heterojunctions Chapters 8 to 19 report on newer topics though a survey of transport properties of carriers is also included Among these are transport of hot electrons and thermoelectric effects including here and elsewhere properties of low dimensional and mesoscopic structures The electron hole liquid the quantum Hall effect localisation ballistic transport coherence in superlattices current ideas on tunnelling and on quantum confinement and scattering processes are also covered

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 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

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a 1 only b 2 only c both 1 and 2 d neither 1 nor 2 answer d neither will be a buffer solution because buffers are something and their conjugate pair which pair of solutes could be used to prepare an aqueous buffer

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