

Second Edition

Physical Chemistry of Ionic Materials

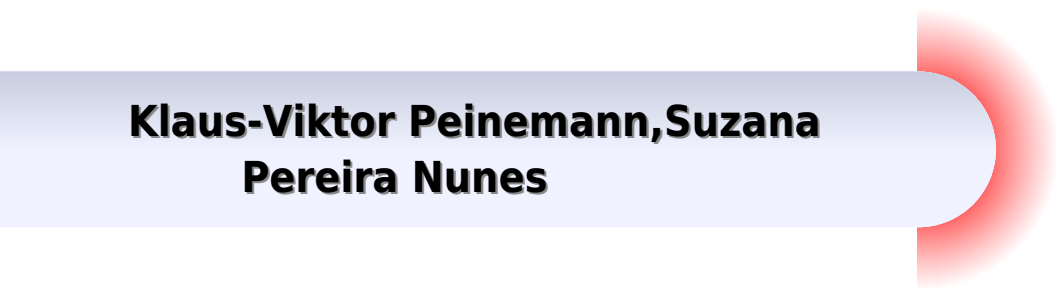
Ions and Electrons in Solids

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Physical Chemistry Of Ionic Materials Ions And Electrons In Solids

**Klaus-Viktor Peinemann, Suzana
Pereira Nunes**



Physical Chemistry Of Ionic Materials Ions And Electrons In Solids:

Physical Chemistry of Ionic Materials Joachim Maier, 2004-08-13 Defects play an important role in determining the properties of solids This book provides an introduction to chemical bond phonons and thermodynamics treatment of point defect formation and reaction equilibria mechanisms and kinetics kinetics chapters on solid state processes and electrochemical techniques and applications Offers a coherent description of fundamental defect chemistry and the most common applications Up to date trends and developments within this field Combines electrochemical concepts with aspects of semiconductor physics

Handbook of Solid State Chemistry, 6 Volume Set Richard Dronskowski, Shinichi Kikkawa, Andreas Stein, 2017-10-23 This most comprehensive and unrivaled compendium in the field provides an up to date account of the chemistry of solids nanoparticles and hybrid materials Following a valuable introductory chapter reviewing important synthesis techniques the handbook presents a series of contributions by about 150 international leading experts the Who's Who of solid state science Clearly structured in six volumes it collates the knowledge available on solid state chemistry starting from the synthesis and modern methods of structure determination Understanding and measuring the physical properties of bulk solids and the theoretical basis of modern computational treatments of solids are given ample space as are such modern trends as nanoparticles surface properties and heterogeneous catalysis Emphasis is placed throughout not only on the design and structure of solids but also on practical applications of these novel materials in real chemical situations

21st Century Nanoscience – A Handbook Klaus D. Sattler, 2020-04-02 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field The fifth volume in a ten volume set covers exotic nanostructures and quantum systems Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanoscience extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond

Solid State Chemistry and its Applications Anthony R. West, 2022-04-06 SOLID STATE CHEMISTRY AND ITS APPLICATIONS A comprehensive treatment of solid state

chemistry complete with supplementary material and full colour illustrations from a leading expert in the field Solid State Chemistry and its Applications Second Edition delivers an advanced version of West's classic text in solid state chemistry expanding on the undergraduate Student Edition to present a comprehensive treatment of solid state chemistry suitable for advanced students and researchers The book provides the reader with an up to date account of essential topics in solid state chemistry and recent developments in this rapidly developing field of inorganic chemistry Significant updates and new content in this second edition include A more extensive overview of important families of inorganic solids including spinels perovskites pyrochlores garnets Ruddlesden Popper phases and many more New methods to synthesise inorganic solids including sol gel methods combustion synthesis atomic layer deposition spray pyrolysis and microwave techniques Advances in electron microscopy X ray and electron spectroscopies New developments in electrical properties of materials including high T_c superconductivity lithium batteries solid oxide fuel cells and smart windows Recent developments in optical properties including fibre optics solar cells and transparent conducting oxides Advances in magnetic properties including magnetoresistance and multiferroic materials Homogeneous and heterogeneous ceramics characterization using impedance spectroscopy Thermoelectric materials MXenes low dimensional structures memristors and many other functional materials Expanded coverage of glass including metallic and fluoride glasses cement and concrete geopolymers refractories and structural ceramics Overview of binary oxides of all the elements their structures properties and applications Featuring full color illustrations throughout readers will also benefit from online supplementary materials including access to CrystalMaker software and over 100 interactive crystal structure models Perfect for advanced students seeking a detailed treatment of solid state chemistry this new edition of Solid State Chemistry and its Applications will also earn a place as a desk reference in the libraries of experienced researchers in chemistry crystallography physics and materials science

Supercapacitors
Syam G. Krishnan, Hong Duc Pham, Deepak P. Dubal, 2024-03-20 Supercapacitors Materials Design and Commercialization provides a comprehensive overview of the latest research trends and opportunities in supercapacitors and particularly in terms of novel materials and electrolytes The book will address the transformation in supercapacitive technology from double layer capacitance to battery type capacitance providing a clear understanding of the conceptual differences between various charge storage processes for supercapacitors charge storage based on materials and electrolytes and calculation for capacitance for these charge processes Detailed chapters discuss recent developments in materials such as carbons chalcogenides MXene and phosphorene various polymer nanocomposites and polyoxometalates for supercapacitors This is followed by in depth coverage of electrolytes including the evolution of electrolytes from aqueous to water in salt electrolytes and their role in improving the energy density of supercapacitors The final part of the book examines the role of artificial intelligence in the design of supercapacitors and latest developments in translating novel supercapacitor technologies from laboratory scale research to a commercialization This is a valuable resource for advanced students researchers and scientists

in the fields of energy storage electrical engineering materials science and chemical engineering as well as engineers and R D personnel working with supercapacitors or energy storage in an industrial setting Brings together the latest developments in supercapacitor materials and electrolytes Discusses cutting edge charge storage concepts and methods for supercapacitors Addresses the role of machine learning and the scale up from laboratory to commercialization Resistive Switching Daniele Ielmini, Rainer Waser, 2015-12-28

With its comprehensive coverage this reference introduces readers to the wide topic of resistance switching providing the knowledge tools and methods needed to understand characterize and apply resistive switching memories Starting with those materials that display resistive switching behavior the book explains the basics of resistive switching as well as switching mechanisms and models An in depth discussion of memory reliability is followed by chapters on memory cell structures and architectures while a section on logic gates rounds off the text An invaluable self contained book for materials scientists electrical engineers and physicists dealing with memory research and development

Advances in Ceramics Costas Sikalidis, 2011-08-09 The current book contains twenty two chapters and is divided into three sections Section I consists of nine chapters which discuss synthesis through innovative as well as modified conventional techniques of certain advanced ceramics e g target materials high strength porous ceramics optical and thermo luminescent ceramics ceramic powders and fibers and their characterization using a combination of well known and advanced techniques Section II is also composed of nine chapters which are dealing with the aqueous processing of nitride ceramics the shape and size optimization of ceramic components through design methodologies and manufacturing technologies the sinterability and properties of ZnNb oxide ceramics the grinding optimization the redox behaviour of ceria based and related materials the alloy reinforcement by ceramic particles addition the sintering study through dihedral surface angle using AFM and the surface modification and properties induced by a laser beam in pressings of ceramic powders Section III includes four chapters which are dealing with the deposition of ceramic powders for oxide fuel cells preparation the perovskite type ceramics for solid fuel cells the ceramics for laser applications and fabrication and the characterization and modeling of protonic ceramics

Synthesis, Properties and Mineralogy of Important Inorganic Materials Terence E. Warner, 2012-05-14 Intended as a textbook for courses involving preparative solid state chemistry this book offers clear and detailed descriptions on how to prepare a selection of inorganic materials that exhibit important optical magnetic and electrical properties on a laboratory scale The text covers a wide range of preparative methods and can be read as separate independent chapters or as a unified coherent body of work Discussions of various chemical systems reveal how the properties of a material can often be influenced by modifications to the preparative procedure and vice versa References to mineralogy are made throughout the book since knowledge of naturally occurring inorganic substances is helpful in devising many of the syntheses and in characterizing the product materials A set of questions at the end of each chapter helps to connect theory with practice and an accompanying solutions manual is available to instructors This book is

also of appeal to postgraduate students post doctoral researchers and those working in industry requiring knowledge of solid state synthesis

Solid State Electrochemistry II Vladislav V. Kharton, 2011-04-27 The ideal addition to the companion volume on fundamentals methodologies and applications this second volume combines fundamental information with an overview of the role of ceramic membranes electrodes and interfaces in this important interdisciplinary and rapidly developing field Written primarily for specialists working in solid state electrochemistry this first comprehensive handbook on the topic focuses on the most important developments over the last decade as well as the methodological and theoretical aspects and practical applications This makes the contents equally of interest to material physical and industrial scientists and to physicists Also available as a two volume set

Nanotechnology for Lithium-Ion Batteries Yaser Abu-Lebdeh, 2012-10-17 This unique combined analysis of two scientific success stories lithium ion batteries and nanotechnology has contributions from leading international experts who analyze the positive interplay between them as well as future developments in energy storage

Nanomaterials for Lithium-Ion Batteries Rachid Yazami, 2013-10-08 This book covers the most recent advances in the science and technology of nanostructured materials for lithium ion application With contributions from renowned scientists and technologists the chapters discuss state of the art research on nanostructured anode and cathode materials some already used in commercial batteries and others still in development They include nanostructured anode materials based on Si Ge Sn and other metals and metal oxides together with cathode materials of olivine the hexagonal and spinel crystal structures

Handbook of Nanophysics Klaus D. Sattler, 2010-09-17 Providing the framework for breakthroughs in nanotechnology this landmark publication is the first comprehensive reference to cover both fundamental and applied physics at the nanoscale After discussing the theoretical principles and measurements of nanoscale systems the organization of the set follows the historical development of nanoscience Each peer reviewed chapter presents a didactic treatment of the physics underlying the nanoscale materials applications and detailed experimental results State of the art scientific content is enriched with fundamental equations and illustrations many in color

Perovskites and Related Mixed Oxides Pascal Granger, Vasile I. Parvulescu, Serge Kaliaguine, Wilfrid Prellier, 2016-02-23 This comprehensive handbook and ready reference details all the main achievements in the field of perovskite based and related mixed oxide materials The authors discuss in an unbiased manner the potentials as well as the challenges related to their use thus offering new perspectives for research and development on both an academic and industrial level The first volume begins by summarizing the different synthesis routes from molten salts at high temperatures to colloidal crystal template methods before going on to focus on the physical properties of the resulting materials and their related applications in the fields of electronics energy harvesting and storage as well as electromechanics and superconductivity The second volume is dedicated to the catalytic applications of perovskites and related mixed oxides including but not limited to total oxidation of hydrocarbons dry reforming of methane and denitrogenation The concluding section deals with the development

of chemical reactors and novel perovskite based applications such as fuel cells and high performance ceramic membranes Throughout the contributions clearly point out the intimate links between structure properties and applications of these materials making this an invaluable tool for materials scientists and for catalytic and physical chemists

Dealing with degradation in solid oxide electrochemical cells: Novel materials and spectroscopic probes Robles Fernández, ADRIÁN, 2022-09-27

Solid State Electrochemistry I Vladislav V. Kharton, 2009-07-10 The only comprehensive handbook on this important and rapidly developing topic combines fundamental information with a brief overview of recent advances in solid state electrochemistry primarily targeting specialists working in this scientific field Particular attention is focused on the most important developments performed during the last decade methodological and theoretical aspects of solid state electrochemistry as well as practical applications The highly experienced editor has included chapters with critical reviews of theoretical approaches experimental methods and modeling techniques providing definitions and explaining relevant terminology as necessary Several other chapters cover all the key groups of the ion conducting solids important for practice namely cationic protonic oxygen anionic and mixed conductors but also conducting polymer and hybrid materials Finally the whole is rounded off by brief surveys of advances in the fields of fuel cells solid state batteries electrochemical sensors and other applications of ion conducting solids Due to the very interdisciplinary nature of this topic this is of great interest to material scientists polymer chemists physicists and industrial scientists too

Fuel Cells Klaus-Dieter Kreuer, 2012-12-14 The expected end of the oil age will lead to increasing focus and reliance on alternative energy conversion devices among which fuel cells have the potential to play an important role Not only can phosphoric acid and solid oxide fuel cells already efficiently convert today's fossil fuels including methane into electricity but other types of fuel cells such as polymer electrolyte membrane fuel cells have the potential to become the cornerstones of a possible future hydrogen economy Featuring 21 peer reviewed entries from the Encyclopedia of Sustainability Science and Technology Fuel Cells offers concise yet comprehensive coverage of the current state of research and identifies key areas for future investigation Internationally renowned specialists provide authoritative introductions to a wide variety of fuel cell types and discuss materials components and systems for these technologies The entries also cover sustainability and marketing considerations including comparisons of fuel cells with alternative technologies

Membranes for Energy Conversion Klaus-Viktor Peinemann, Suzana Pereira Nunes, 2008-09-08 Focusing on recent developments in innovative energy conversion this second volume features emerging applications with the capacity to transform the entire energy economy Specific examples include the development of sulfonated polyarylether type polymers as proton exchange membranes for high and medium temperature polymer electrode fuel cells PEFC with an entire section devoted to the rapidly expanding field of materials development for solid oxide fuel cells SOFC The result is a detailed and invaluable source of information for those involved in the chemical material science and engineering fields of power generation

High Temperature Oxidation and Corrosion of Metals David John

Young,2008-10-03 The book is concerned with understanding the fundamental mechanisms of high temperature alloy oxidation It uses this understanding to develop methods of predicting oxidation rates and the way they change with temperature gas chemistry and alloy composition The focus is on designing or selecting alloy compositions which provide optimal resistance to attack by corrosive gases Emphasises quantitative calculations for predicting reaction rates and the effects of temperature oxidant activities and alloy compositions Uses phase diagrams and diffusion paths to analyse and interpret scale structures and internal precipitation distributions Provides a detailed examination of corrosion in industrial gases water vapour effects carburisation and metal dusting sulphidation Text is well supported by numerous micrographs phase diagrams and tabulations of relevant thermodynamic and kinetic data Combines physical chemistry and materials science methodologies Encyclopedia of Electrochemical Power Sources Jürgen Garche,Chris K. Dyer,Patrick T. Moseley,Zempachi Ogumi,David A. J. Rand,Bruno Scrosati,2013-05-20 The Encyclopedia of Electrochemical Power Sources is a truly interdisciplinary reference for those working with batteries fuel cells electrolyzers supercapacitors and photo electrochemical cells With a focus on the environmental and economic impact of electrochemical power sources this five volume work consolidates coverage of the field and serves as an entry point to the literature for professionals and students alike Covers the main types of power sources including their operating principles systems materials and applications Serves as a primary source of information for electrochemists materials scientists energy technologists and engineers Incorporates nearly 350 articles with timely coverage of such topics as environmental and sustainability considerations **Crystal Structure of Electroceramics** Stevin Snellius Pramana,2018-04-03 This book is a printed edition of the Special Issue Crystal Structure of Electroceramics that was published in Crystals

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