

CONCISE ENCYCLOPEDIA OF SOLID STATE PHYSICS

Edited by

Rita G. Lerner

Department of Physics, New York, New York

George L. Trigg

Department of Physics, Rutgers, New York

Foreword by

Charles Herring

Rutgers University, Newark, New Jersey



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Concise Encyclopedia Of Solid State Physics

Jagdeep Shah



Concise Encyclopedia Of Solid State Physics:

Concise Encyclopedia of Solid State Physics Rita G. Lerner, George L. Trigg, 1983-01-01 Concise Encyclopedia of Advanced Ceramic Materials R.J. Brook, 2012-12-02 Advanced ceramics cover a wide range of materials which are ceramic by nature but have been developed in response to specific requirements This encyclopedia collects together 137 articles in order to provide an up to date account of the advanced ceramic field Some articles are drawn from the acclaimed Encyclopedia of Materials Science and Engineering often revised and others have been newly commissioned The Concise Encyclopedia of Advanced Ceramic Materials aims to provide a comprehensive selection of accessible articles which act as an authoritative guide to the subject The format is designed to help the readers form opinions on a particular subject Arranged alphabetically with a broad subject range the articles are diverse in character and style thereby stimulating further discussion Topics covered include survey articles on glass hot pressing insulators powders and many are concerned with specific chemical systems and their origins processing and applications The Concise Encyclopedia of Advanced Ceramic Materials will be invaluable to materials scientists researchers educators and industrialists working in technical ceramics

Concise Encyclopedia of Semiconducting Materials & Related Technologies S. Mahajan, L. C. Kimerling, 2013-10-22 The development of electronic materials and particularly advances in semiconductor technology have played a central role in the electronics revolution by allowing the production of increasingly cheap and powerful computing equipment and advanced telecommunications devices This Concise Encyclopedia which incorporates relevant articles from the acclaimed Encyclopedia of Materials Science and Engineering as well as newly commissioned articles emphasizes the materials aspects of semiconductors and the technologies important in solid state electronics Growth of bulk crystals and epitaxial layers are discussed in the volume and coverage is included of defects and their effects on device behavior Metallization and passivation issues are also covered Over 100 alphabetically arranged articles written by world experts in the field are each intended to serve as the first source of information on a particular aspect of electronic materials The volume is extensively illustrated with photographs diagrams and tables A bibliography is provided at the end of each article to guide the reader to recent literature A comprehensive system of cross references a three level subject index and an alphabetical list of articles are included to aid readers in the abstraction of information Concise Encyclopedia of Magnetic and Superconducting Materials K.H.J. Buschow, 2005-12-28 Magnetic and superconducting materials pervade every avenue of the technological world from microelectronics and mass data storage to medicine and heavy engineering Both areas have experienced a recent revitalisation of interest due to the discovery of new materials and the re evaluation of a wide range of basic mechanisms and phenomena This Concise Encyclopedia draws its material from the award winning Encyclopedia of Materials and Engineering and includes updates and revisions not available in the original set making it the ideal reference companion for materials scientists and engineers with an interest in magnetic and superconducting materials Contains in excess of 130 articles taken

from the award winning Encyclopedia of Materials Science and Technology including ScienceDirect updates not available in the original set Each article discusses one aspect of magnetic and superconducting materials and includes photographs line drawings and tables to aid the understanding of the topic at hand Cross referencing guides readers to articles covering subjects of related interest

Concise Encyclopedia of Materials Characterization R.W. Cahn,E.M. Lifshitz,2016-01-22 To use materials effectively their composition degree of perfection physical and mechanical characteristics and microstructure must be accurately determined This concise encyclopledia covers the wide range of characterization techniques necessary to achieve this Articles included are not only concerned with the characterization techniques of specific materials such as polymers metals ceramics and semiconductors but also techniques which can be applied to materials in general The techniques described cover bulk methods and also a number of specific methods to study the topography and composition of surface and near surface regions These techniques range from the well established and traditional to the very latest including atomic force microscopy confocal optical microscopy gamma ray diffractometry thermal wave imaging x ray diffraction and time resolved techniques This unique concise encyclopedia comprises 116 articles by leading experts in the field from around the world to create the ideal guide for materials scientists chemists and engineers involved with any aspect of materials characterization With over 540 illustrations extensive cross referencing approximately 900 references and a detailed index this concise encyclopedia will be a valuable asset to any materials science collection

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Encyclopedia of Chemical Physics and Physical Chemistry John H. Moore,Nicholas D. Spencer,2023-07-03 The Encyclopedia of Physical Chemistry and Chemical Physics introduces possibly unfamiliar areas explains important experimental and computational techniques and describes modern endeavors The encyclopedia quickly provides the basics defines the scope of each subdiscipline and indicates where to go for a more complete and detailed explanation Particular attention has been paid to symbols and abbreviations to make this a user friendly encyclopedia Care has been taken to ensure that the reading level is suitable for the trained chemist or physicist The encyclopedia is divided in three major sections FUNDAMENTALS the mechanics of atoms and molecules and their interactions the macroscopic and statistical description of systems at equilibrium and the basic ways of treating reacting systems The contributions in this section assume a somewhat less sophisticated audience than the two subsequent sections At least a portion of each article inevitably covers material that might also be found in a modern undergraduate physical chemistry text METHODS the instrumentation and fundamental theory employed in the major spectroscopic techniques the experimental means for characterizing materials the instrumentation and basic theory employed in the study of chemical

kinetics and the computational techniques used to predict the static and dynamic properties of materials APPLICATIONS specific topics of current interest and intensive research For the practicing physicist or chemist this encyclopedia is the place to start when confronted with a new problem or when the techniques of an unfamiliar area might be exploited For a graduate student in chemistry or physics the encyclopedia gives a synopsis of the basics and an overview of the range of activities in which physical principles are applied to chemical problems It will lead any of these groups to the salient points of a new field as rapidly as possible and gives pointers as to where to read about the topic in more detail

Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep Shah, 2013-11-21 The field of ultrafast spectroscopy of semiconductors and their nanostructures continues to be an active field of research Exciting new developments have taken place since the first edition of this book was completed in 1995 This revised edition includes a discussion of many of these recent developments in the field This is accomplished by adding a chapter on Recent Developments at the end of the book This approach was selected to provide a discussion of results while they are still relatively recent Results published before the end of May 1998 were considered for inclusion in this book The objective of this revised edition remains the same as before to provide a cohesive discussion of the many diverse contributions of ultrafast spectroscopy to the field of semiconductors Extensive cross references are made to earlier chapters in order to accomplish this goal The chapter on Recent Developments begins with a brief discussion of new lasers new techniques of ultrafast spectroscopy and novel nanostructures This is followed by a section on Coherent Spectroscopy where some of the most interesting recent developments have taken place These include observation of quantum kinetic effects effects that require going beyond the mean field approach of the semiconductor Bloch equations coherent control of populations and current in semiconductors exciton continuum interactions and many diverse aspects of coherent spectroscopy including studies of microcavities Bragg structures quantum dots and quantum wires

New Developments in Ferromagnetism Research V. N. Murray, 2005 Ferromagnetism is a form of magnetism that can be acquired in an external magnetic field and usually retained in its absence so that ferromagnetic materials are used to make permanent magnets A ferromagnetic material may therefore be said to have a high magnetic permeability and susceptibility which depends upon temperature Examples are iron cobalt nickel and their alloys Ultimately ferromagnetism is caused by spinning electrons in the atoms of the material which act as tiny weak magnets They align parallel to each other within small regions of the material to form domains or areas of stronger magnetism In an unmagnetised material the domains are aligned at random so there is no overall magnetic effect If a magnetic field is applied to that material the domains align to point in the same direction producing a strong overall magnetic effect Permanent magnetism arises if the domains remain aligned after the external field is removed Ferromagnetic materials exhibit hysteresis In 2004 it was discovered that a certain allotrope of carbon nanofoam exhibited ferromagnetism The effect dissipates after a few hours at room temperature but lasts longer at cold temperatures The material is also a

semiconductor It is thought that other similarly formed materials of boron and nitrogen may also be ferromagnetic This new book rings together leading research from throughout the world **Introduction to the Physics of Electrons in Solids** Henri Alloul,2010-12-09 This textbook sets out to enable readers to understand fundamental aspects underlying quantum macroscopic phenomena in solids primarily through the modern experimental techniques and results The classic independent electrons approach for describing the electronic structure in terms of energy bands helps explain the occurrence of metals insulators and semiconductors It is underlined that superconductivity and magnetism can only be understood by taking into account the interactions between electrons The text recounts the experimental observations that have revealed the main properties of the superconductors and were essential to track its physical origin While fundamental concepts are underlined those which are required to describe the high technology applications present or future are emphasized as well Problem sets involve experimental approaches and tools which support a practical understanding of the materials and their behaviour

Walford's Guide to Reference Material: Science and technology Albert John Walford,1993 Cette bibliographie commentee touche tous les domaines du savoir humain soit de l Art a la Zoologie elle signale les ouvrages les plus importants soit des bibliographies des index des encyclopedies des dictionnaires des guides des revues etc dont le support ed information est soit du papier soit un cd rom soit une base de donnees en ligne directe soit un microforme ect L objectif du guide Walford est de devenir La source d information sur tout type de reference nonobstant le support technique *Concise Encyclopedia of Building and Construction Materials* Fred Moavenzadeh,Robert W. Cahn,1990 The building materials covered by the Concise Encyclopedia of Building and Construction Materials are classified in three groups structural materials semistructural materials and auxiliary materials Fundamentals of Ceramics Michel Barsoum,M.W Barsoum,2002-11-27 Updated and improved this revised edition of Michel Barsoum s classic text Fundamentals of Ceramics presents readers with an exceptionally clear and comprehensive introduction to ceramic science Barsoum offers introductory coverage of ceramics their structures and properties with a distinct emphasis on solid state physics and chemistry Key equations are derived from first principles to ensure a thorough understanding of the concepts involved The book divides naturally into two parts Chapters 1 to 9 consider bonding in ceramics and their resultant physical structures and the electrical thermal and other properties that are dependent on bonding type The second part Chapters 11 to 16 deals with those factors that are determined by microstructure such as fracture and fatigue and thermal dielectric magnetic and optical properties Linking the two sections is Chapter 10 which describes sintering grain growth and the development of microstructure Fundamentals of Ceramics is ideally suited to senior undergraduate and graduate students of materials science and engineering and related subjects Handbook of Electrostatic Processes Jen-Shih Chang,Arnold J. Kelly,Joseph M. Crowley,2018-12-14 Provides detailed comprehensive descriptions of electrostatic processes as well as their applications in areas such as rheology atomization and spraying industrial dust particle precipitation and filtering biomedical engineering gas treatments

atmospheric electricity chemical reactors and electronic devices Summarizes electrostatic fundamentals and electrical phenomena in solids and fluids **Materials Handbook** François Cardarelli, 2013-11-11 Despite the several comprehensive series available in Material Sciences and their related fields it is a hard task to find grouped properties of metals and alloys ceramics polymers minerals woods and building materials in a single volume source book Actually the scope of this practical handbook is to provide to scientists engineers professors technicians and students working in numerous scientific and technical fields ranging from nuclear to civil engineering easy and rapid access to the accurate physico chemical properties of all classes of materials Classes used to describe the materials are i metals and their alloys ii semiconductors iii superconductors iv magnetic materials v miscellaneous electrical materials e g dielectrics thermocouple and industrial electrode materials vi ceramics refractories and glasses vii polymers and elastomers viii minerals ores meteorites and rocks ix timbers and woods and finally x building materials Particular emphasis is placed on the properties of the most common industrial materials in each class Physical and chemical properties usually listed for each material are i mechanical e g density elastic moduli Poisson's ratio yield and tensile strength hardness fracture toughness ii thermal e g melting point thermal conductivity specific heat capacity coefficient of linear thermal expansion spectral emissivities iii electrical e g resistivity dielectric permittivity loss tangent factor iv magnetic e g magnetic permeability remanence Hall constant v optical e g refractive indices reflective index vi electrochemical e g **Choice** , 1994 **Introduction to Materials Science** Jean P Mercier, Gerald Zambelli, Wilfried Kurz, 2012-12-02 The approach of this concise but comprehensive introduction covering all major classes of materials is right for not just materials science students and professionals but also for those in engineering physics and chemistry or other related disciplines The characteristics of all main classes of materials metals polymers and ceramics are explained with reference to real world examples So each class of material is described then its properties are explained with illustrative examples from the leading edge of application This edition contains new material on nanomaterials and nanostructures and includes a study of degradation and corrosion and a presentation of the main organic composite materials Illustrative examples include carbon fibres the silicon crystal metallic glasses and diamond films Applications explored include ultra light aircraft contact lenses dental materials single crystal blades for gas turbines use of lasers in the automotive industry cables for cable cars permanent magnets and molecular electronic devices Covers latest materials including nanomaterials and nanostructures Real world case studies bring the theory to life and illustrate the latest in good design All major classes of materials are covered in this concise yet comprehensive volume *Fast Electrical and Optical Measurements* D.J. Thompson, Lawrence H. Luessen, 1986-03-31 Proceedings of the NATO Advanced Study Institute on Fast Electrical and Optical Diagnostic Principles and Techniques Il Ciocco Castelveccchio Pascoli Italy July 10 24 1983 *CRC Concise Encyclopedia of Nanotechnology* Boris Ildusovich Kharisov, Oxana Vasilievna Kharissova, Ubaldo Ortiz-Mendez, 2016-01-06 The CRC Concise Encyclopedia of Nanotechnology sets the standard against which all other

references of this nature are measured As such it is a major resource for both skilled professionals and novices to nanotechnology The book examines the design application and utilization of devices techniques and technologies critical to research at the

Scanning Tunneling Microscopy I Hans-Joachim Güntherodt,Roland Wiesendanger,2012-12-06

Scanning Tunneling Microscopy I provides a unique introduction to a novel and fascinating technique that produces beautiful images of nature on an atomic scale It is the first of three volumes that together offer a comprehensive treatment of scanning tunneling microscopy its diverse applications and its theoretical treatment In this volume the reader will find a detailed description of the technique itself and of its applications to metals semiconductors layered materials adsorbed molecules and superconductors In addition to the many representative results reviewed extensive references to original work will help to make accessible the vast body of knowledge already accumulated in this field

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