

METHODS OF
Experimental Physics

VOLUME 21

**SOLID STATE:
NUCLEAR METHODS**

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O García



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Methods Of Experimental Physics: Vol 21: Solid State: Nuclear Methods J.N. Mundy, *Hydrogen Storage Materials* Darren P. Broom, 2011-02-28 The problem of storing hydrogen safely and effectively is one of the major technological barriers currently preventing the widespread adoption of hydrogen as an energy carrier and the subsequent transition to a so called hydrogen economy Practical issues with the storage of hydrogen in both gas and liquid form appear to make reversible solid state hydrogen storage the most promising potential solution Hydrogen Storage Materials addresses the characterisation of the hydrogen storage properties of the materials that are currently being considered for this purpose The background to the topic is introduced along with the various types of materials that are currently under investigation including nanostructured interstitial and complex hydrides and porous materials such as metal organic frameworks and microporous organic polymers The main features of Hydrogen Storage Materials include an overview of the different types of hydrogen storage materials and the properties that are of interest for their practical use descriptions of the gas sorption measurement methods used to determine these properties and the complementary techniques that can be used to help corroborate hydrogen uptake data and extensive coverage of the practical considerations for accurate hydrogen sorption measurement that drive both instrument design and the development of experimental methodology Hydrogen Storage Materials provides an up to date overview of the topic for experienced researchers while including enough introductory material to serve as a useful practical introduction for newcomers to the field *Solid State*, 1983-12-01 Solid State

Solid State Physics, 1985-04-23 Solid State Physics *Physical Optics and Light Measurements*, 1989-02-01 Physical Optics and Light Measurements **Statistical Methods for Physical Science**, 1994-12-13 This volume of Methods of Experimental Physics provides an extensive introduction to probability and statistics in many areas of the physical sciences with an emphasis on the emerging area of spatial statistics The scope of topics covered is wide ranging the text discusses a variety of the most commonly used classical methods and addresses newer methods that are applicable or potentially important The chapter authors motivate readers with their insightful discussions Examines basic probability including coverage of standard distributions time series models and Monte Carlo methods Describes statistical methods including basic inference goodness of fit maximum likelihood and least squares Addresses time series analysis including filtering and spectral analysis Includes simulations of physical experiments Features applications of statistics to atmospheric physics and radio astronomy Covers the increasingly important area of modern statistical computing *Methods of Experimental Physics*, 1983 **International Tables for Crystallography, Volume B** U. Shmueli, 2008-08-25 International Tables for Crystallography is the definitive resource and reference work for crystallography and structural science Volume B presents accounts of the numerous aspects of reciprocal space in crystallographic research This volume is a vital addition to the library of scientists engaged in crystal structure determination crystallographic computing crystal physics and other fields of

crystallographic research Graduate students specializing in crystallography will find much material suitable for self study and a rich source of references to the relevant literature New to this edition A new chapter on modern extensions of the Ewald method for Coulomb interactions in crystals Three new sections on electron diffraction and electron microscopy in structure determination describing point group and space group determination by convergent beam electron diffraction three dimensional reconstruction and single particle reconstruction Substantial revisions to the chapters on space group representations in reciprocal space direct methods Patterson and molecular replacement techniques and disorder diffuse scattering More information on the series can be found at <http://it.iucr.org>

Atomic, Molecular, and Optical Physics: Charged Particles, 1995-11-29 With this volume *Methods of Experimental Physics* becomes *Experimental Methods in the Physical Sciences* a name change which reflects the evolution of today's science This volume is the first of three which will provide a comprehensive treatment of the key experimental methods of atomic molecular and optical physics the three volumes as a set will form an excellent experimental handbook for the field The wide availability of tunable lasers in the past several years has revolutionized the field and led to the introduction of many new experimental methods that are covered in these volumes Traditional methods are also included to ensure that the volumes will be a complete reference source for the field

Solid-state Physics Source Book Sybil P. Parker, 1988 *Geometrical and Instrumental Optics*, 1989-01-01 *Geometrical and Instrumental Optics*

Self-diffusion and Impurity Diffusion in Pure Metals Gerhard Neumann, Cornelis Tuijn, 2011-08-19 Diffusion in metals is an important phenomenon which has many applications for example in all kinds of steel and aluminum production and in alloy formation technical applications e.g. in superconductivity and semiconductor science In this book the data on diffusion in metals are shown both in graphs and in equations Reliable data on diffusion in metals are required by researchers who try to make sense of results from all kinds of metallurgical experiments and they are equally needed by theorists and computer modelers The previous compilation dates from 1990 and measurements relying on the electron microprobe and the recent Rutherford backscattering technique were hardly taken into account there This reference book containing all results on self diffusion and impurity diffusion in pure metals with an indication of their reliability will be useful to everyone in this field for the theory fundamental research and industrial applications covered Up to date and complete including EPMA and RBS investigations Indication of reliability of the measurements Reassessment of many early results Data can easily be extracted from Tables and Graphs

Scanning Tunneling Microscopy Joseph A. Stroscio, William J. Kaiser, 2013-10-22 Scanning tunneling microscopy STM and its extensions have become revolutionary tools in the fields of physics materials science chemistry and biology These new microscopies have evolved from their beginnings as research aids to their current use as commercial tools in the laboratory and on the factory floor New wonders continue to unfold as STM delivers atomic scale imaging and electrical characterization of the newly emerging nanometer world This volume in the *METHODS OF EXPERIMENTAL PHYSICS* Series

describes the basics of scanning tunneling microscopy provides a fundamental theoretical understanding of the technique and a thorough description of the instrumentation and examines numerous examples and applications Written by the pioneers of the field this volume is an essential handbook for researchers and users of STM as well as a valuable resource for libraries

Spectroscopic Techniques and Hindered Molecular Motion Ferid Bashirov, 2011-10-13 Spectroscopic Techniques and Hindered Molecular Motion presents a united theoretical approach to studying classical local thermal motion of small molecules and molecular fragments in crystals by spectroscopic techniques Mono and polycrystalline case studies demonstrate performance validity The book focuses on small molecules and molecular fragments such as N_2 HCl CO_2 CH_4 H_2O NH_4 BeF_4 NH_3 CH_2 CH_3 C_6H_6 SF_6 and other symmetrical atomic formations which exhibit local hindered motion in molecular condensed media molecular and ionic crystals molecular liquids liquid crystals polymeric solids and biological objects It reviews the state of studying the hindered molecular motion HMM phenomenon and the experimental works on the basis of the latest theoretical research Case Studies Physical models of hindered molecular motion General solution of the stochastic problem for the hindered molecular motion in crystals Formulae of the angular autocorrelation function symmetrized on the crystallographic point symmetry groups Formulae of the spectral line shapes concerning the dielectric infrared Raman nuclear magnetic relaxation and neutron scattering spectroscopy in the presence of the hindered molecular motion Experimental probation of the theoretical outcomes Proton relaxation in three atomic molecular fragments undergoing axial symmetry hindered motion Structural distortion in the ordered phase of crystalline ammonium chloride Organic compounds polymers pharmaceutical products and biological systems consist of the molecular fragments which possess rotational or conformational degrees of freedom or an atomic exchange within the fragments Liquid crystals present a menagerie of substances for which orientational ordering shows special significance Knowledge of the laws of molecular motion stimulates growing new crystals and synthesizing new substances with the desired properties Although this book does not exhaust all varieties of scientific and engineering problems it is a fundamental and comprehensive resource and catalyst for further HMM research

1998 Freshman Achievement Award David R. Lide, 1998 **Fundamental Aspects of Inert Gases in Solids** S.E. Donnelly, J.H. Evans, 2013-12-20 The NATO Advanced Research Workshop on Fundamental Aspects of Inert Gases in Solids held at Bonas France from 16-22 September 1990 was the fifth in a series of meetings that have been held in this topic area since 1979 The Consultants Meeting in that year at Harwell on Rare Gas Behaviour in Metals and Ionic Solids was followed in 1982 by the Jilich International Symposium on Fundamental Aspects of Helium in Metals Two smaller meetings have followed a CECAM organised workshop on Helium Bubbles in Metals was held at Orsay France in 1986 while in February 1989 a Topical Symposium on Noble Gases in Metals was held in Las Vegas as part of the large TMS AIME Spring Meeting As is well known the dominating feature of inert gas atoms in most solids is their high heat of solution leading in most situations to an essentially zero solubility and gas atom precipitation In organising the workshop

one particular aim was to target the researchers in the field of inert gas solid interactions from three different areas namely metals tritides and nuclear fuels in order to encourage and foster the cross fertilisation of approaches and ideas In these three material classes the behaviour of inert gases in metals has probably been most studied partly from technological considerations the effects of helium production via nuclear reactions during neutron irradiation are of importance particularly in a fusion reactor environment and partly from a more fundamental viewpoint Ultrasonics Dale Ensminger, Leonard J. Bond, 2011-09-19 The book provides a unique and comprehensive treatment of the science technology and applications for industrial and medical ultrasonics including low and high power implementations The discussion of applications is combined with the fundamental physics the reporting of the sensors transducers and systems for the full spectrum of industrial nondestructive testing and medical biomedical uses It includes citations of numerous references and covers both mainstream and the more unusual and obscure applications of ultrasound **Nuclear Science Abstracts**, 1967

Treatise on Solid State Chemistry N. Hannay, 2012-12-06 The last quarter century has been marked by the extremely rapid growth of the solid state sciences They include what is now the largest subfield of physics and the materials engineering sciences have likewise flourished And playing an active role throughout this vast area of science and engineering have been very large numbers of chemists Yet even though the role of chemistry in the solid state sciences has been a vital one and the solid state sciences have in turn made enormous contributions to chemical thought solid state chemistry has not been recognized by the general body of chemists as a major subfield of chemistry Solid state chemistry is not even well defined as to content Some for example would have it include only the quantum chemistry of solids and would reject thermodynamics and phase equilibria this is nonsense Solid state chemistry has many facets and one of the purposes of this Treatise is to help define the field Perhaps the most general characteristic of solid state chemistry and one which helps differentiate it from solid state physics is its focus on the chemical composition and atomic configuration of real solids and on the relationship of composition and structure to the chemical and physical properties of the solid Real solids are usually extremely complex and exhibit almost infinite variety in their compositional and structural features Neutron Applications in Earth, Energy and Environmental Sciences Liyuan Liang, Romano Rinaldi, Helmut Schober, 2008-12-11 Neutron Applications in Earth Energy and Environmental Sciences offers a comprehensive overview of the wide ranging applications of neutron scattering techniques to elucidate the fundamental materials properties at the nano micro and meso scale which underpin research in the related fields of Earth Energy and Environmental Sciences Introductions to neutron scattering fundamentals and instrumentation are paired with a thorough review of the applications to a large variety of scientific and technological problems written through the direct experience of leading scientists in each field Tailored to a wide audience this volume provides the novice with an inspiring introduction and stimulates the expert to consider these non conventional problem solving techniques in his her field of interest Earth and environmental scientists engineers researchers and graduate

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