

Vladimir Plekhanov

# Isotopes in Condensed Matter

# Isotopes In Condensed Matter Springer Series In Materials Science

**Alexander Ziegler, Heinz  
Graafsma, Xiao Feng Zhang, Joost W.M.  
Frenken**

## **Isotopes In Condensed Matter Springer Series In Materials Science:**

Isotopes in Condensed Matter Vladimir G. Plekhanov, 2012-08-10 This book provides a concise introduction to the newly created sub discipline of solid state physics isotopetronics The role of isotopes in materials and their properties are describe in this book The problem of the enigma of the atomic mass in microphysics is briefly discussed The range of the applications of isotopes is wide from biochemical process in living organisms to modern technical applications in quantum information Isotopetronics promises to improve nanoelectronic and optoelectronic devices With numerous illustrations this book is useful to researchers engineers and graduate students

**Introduction to Isotopic Materials Science** Vladimir G. Plekhanov, 2018-12-05 This book describes new trends in the nanoscience of isotopic materials science Assuming a background in graduate condensed matter physics and covering the fundamental aspects of isotopic materials science from the very beginning it equips readers to engage in high level professional research in this area The book s main objective is to provide insight into the question of why solids are the way they are either because of how their atoms are bonded with one another because of defects in their structure or because of how they are produced or processed Accordingly it explores the science of how atoms interact connects the results to real materials properties and demonstrates the engineering concepts that can be used to produce or improve semiconductors by design In addition it shows how the concepts discussed are applied in the laboratory The book addresses the needs of researchers graduate students and senior undergraduate students alike Although primarily written for materials science audience it will be equally useful to those teaching in electrical engineering materials science or even chemical engineering or physics curricula In order to maintain the focus on materials concepts however the book does not burden the reader with details of many of the derivations and equations nor does it delve into the details of electrical engineering topics

*Isotope Low-Dimensional Structures* Vladimir G. Plekhanov, 2012-05-08 This Briefs volume describes the properties and structure of elementary excitations in isotope low dimensional structures Without assuming prior knowledge of quantum physics the present book provides the basic knowledge needed to understand the recent developments in the sub disciplines of nanoscience isotopetronics novel device concepts and materials for nanotechnology It is the first and comprehensive interdisciplinary account of the newly developed scientific discipline isotopetronics

**Epitaxy** Marian A. Herman, W. Richter, Helmut Sitter, 2013-03-09 Epitaxy provides readers with a comprehensive treatment of the modern models and modifications of epitaxy together with the relevant experimental and technological framework This advanced textbook describes all important aspects of the epitaxial growth processes of solid films on crystalline substrates including a section on heteroepitaxy It covers and discusses in details the most important epitaxial growth techniques which are currently widely used in basic research as well as in manufacturing processes of devices namely solid phase epitaxy liquid phase epitaxy vapor phase epitaxy including metal organic vapor phase epitaxy and molecular beam epitaxy Epitaxy s coverage of science and texhnology thin film is intended to fill the need

for a comprehensive reference and text examining the variety of problems related to the physical foundations and technical implementation of epitaxial crystallization

**Chemical-Mechanical Planarization of Semiconductor Materials** M.R. Oliver, 2013-03-14 Chemical Mechanical Planarization CMP has emerged in the last two decades and grown rapidly as a basic technology widely used in semiconductor device fabrication As a semiconductor processing step it was developed at IBM in the mid 1980s From this beginning the technology has been widely adopted throughout the semiconductor industry As basic CMP technology has been understood and accepted throughout the semiconductor industry its uses in different parts of the semiconductor process have multiplied This includes special steps for some special processing flows such as for DRAM technology In addition the availability of CMP technology has enabled the implementation of new technologies with the best example being copper interconnect technology Copper could not be practically implemented into semiconductor process flows until the advent of CMP Unfortunately the rapid acceptance and implementation of CMP technology in wafer fabrication has occurred without a corresponding rate of advance in the underlying science Progress is being made in understanding the underlying CMP mechanisms but in general it is slow and uneven The most noteworthy exception to this trend is the science of metal CMP reactions where the scientific understanding is actually driving much of the advance of the technology There has been no corresponding progress in other CMP areas however

*High-Temperature Superconductivity* Victor Dmitrievich Lakhno, 2022-08-01 High temperature superconducting theory drew controversy after the discovery of superconductors at close to room temperatures However a consistent microscopic theory of HT superconductivity based on bipolaron mechanism leads to a better understanding of microscopic and macroscopic description By presenting aspects of superconductivity now joined in a strict theory rather than separate models this work is especially useful for graduate students

**Phonon Scattering in Condensed Matter VII** Michael Meissner, Robert O. Pohl, 2012-12-06 This volume contains the proceedings of the Seventh International Conference on Phonon Scattering in Condensed Matter held August 3-7 1992 at Cornell University in Ithaca NY USA The preceding conferences were held at St Maxime and Paris France 1972 Nottingham UK 1975 Providence USA 1979 Stuttgart Germany 1983 Urbana USA 1986 and Heidelberg Germany 1989 The Heidelberg conference was held jointly with the Third International Conference on Phonon Physics The next conference to be held in August 1995 in Sapporo Japan and hosted by Professor T Nakayama and his colleagues will also be such a joint conference This conference was attended by 227 scientists from 27 countries and covered all aspects of phonon scattering in condensed matter ranging from the more traditional topics of thermal conductivity Kapitza resistance and ballistic phonon propagation to the recently added topics such as electron phonon interaction in high  $T_c$  superconductors the use of phonons in particle detection and phonons in confined geometries The 207 papers arranged in 11 chapters in this volume are a cross section of the present activities in the quite obviously vibrant field of phonons and their interactions

**Mechanisms of High Temperature Superconductivity** Hiroshi Kamimura, Atsushi Oshiyama, 2013-03-07 Since the discovery by Bednorz

and Miller of Cu O alloys displaying high temperature superconductivity great energy has been put into research in this field One of the most important and interesting issues and the subject of this volume is the clarification of the microscopic origin and mechanism of high temperature superconductivity This book discusses the latest experimental results on magnetic optical electrical thermal and mechanical properties of the Cu O and Bi O superconductors as well as proposed theoretical models of the mechanisms The participants in the symposium agreed that for the high Tc Cu O superconductors electron correlation effects are of central importance For the Bi O superconductors the main topic was whether the mechanism of superconductivity is the same as that of high Tc Cu O superconductors What was and what was not resolved at the symposium is summarized at the end of the volume Fatigue in Ferroelectric Ceramics and Related Issues Doru

Constantin Lupascu, 2013-11-11 A major barrier to the introduction of ferroelectric devices into mass markets remains their limited reliability due to fatigue The underlying physical and chemical mechanisms of this material fatigue phenomenon are extremely complex and the relevant influences range from single point defects to macroscopic boundary conditions This book summarizes the different aspects of fatigue in ferroelectrics It is primarily concerned with bulk material effects Mechanical electrical and physico chemical processes are described reference data are given for different loading regimes and boundary conditions and various fatigue models are compared The monograph also demonstrates how the results of acoustic emission and of microscopy studies reveal the microscopic origins of fatigue in ferroelectric devices **Muon Science** S.L Lee, R

Cywinski, S.H Kilcoyne, 2017-11-01 Muon science is rapidly assuming a central role in scientific and technological studies of the solid state within the disciplines of physics chemistry and materials science Muon Science Muons in Physics Chemistry and Materials presents key developments in both theoretical and experimental aspects of muon spin relaxation rotation and resonance Assuming no prior expertise in muon science the book guides readers from introductory material to the latest developments in the field The internationally renowned expert contributors cover topics in muon instrumentation and muon science applications that include muon production beamlines and instrumentation muonium chemistry muon catalyzed fusion fundamental muon physics ultra cold muons magnetism superconductivity diffusion semiconductors simulations and data analysis The book maintains consistent notation and nomenclature throughout as well as cross referencing and continuity between the contributions It provides an excellent introduction to both new and experienced muon beam scientists and graduate students wishing to develop their knowledge and understanding of the subject In-situ Materials

Characterization Alexander Ziegler, Heinz Graafsma, Xiao Feng Zhang, Joost W.M. Frenken, 2014-04-01 The behavior of nanoscale materials can change rapidly with time either because the environment changes rapidly or because the influence of the environment propagates quickly across the intrinsically small dimensions of nanoscale materials Extremely fast time resolution studies using X rays electrons and neutrons are of very high interest to many researchers and is a fast evolving and interesting field for the study of dynamic processes Therefore in situ structural characterization and measurements of

structure property relationships covering several decades of length and time scales from atoms to millimeters and femtoseconds to hours with high spatial and temporal resolutions are crucially important to understand the synthesis and behavior of multidimensional materials The techniques described in this book will permit access to the real time dynamics of materials surface processes and chemical and biological reactions at various time scales This book provides an interdisciplinary reference for research using in situ techniques to capture the real time structural and property responses of materials to surrounding fields using electron optical and x ray microscopies e g scanning transmission and low energy electron microscopy and scanning probe microscopy or in the scattering realm with x ray neutron and electron diffraction

**Muon Physics** Nicolai Popov, 2018-11-15 Muon plays an important role in elementary particle nuclear and atomic physics Muon was discovered in 1936 in cosmic radiation At present it is very important in the framework of the Standard Model With the discovery of a charm quantum number muon and the accompanying muon neutrino play an important role in the quark lepton model of elementary particles being combined in the second generation of the Standard Model Muonic processes provide important information on the low energy limit of the weak interaction This book describes the various aspects of muon physics taking into account the most recent experiments conducted LACAME 2008 J. Desimoni, C. P. Ramos, Bibiana Arcondi, F. D. Saccone, R. C. Mercader, 2010-01-27 Proceedings of the Eleventh Latin American Conference on the Applications of the Mossbauer Effect La Plata Argentina 9-14 November 2008 The broad scope of the Applications of the Mossbauer Effect to interdisciplinary subjects makes this volume an outstanding source of information to researchers and graduate students who will find the unique results of Mossbauer spectroscopy a valuable aid and complement to their research in conjunction with other techniques In this volume applications to mineralogy catalysis soil science amorphous materials nanoparticles magnetic materials nanotechnology metallurgy corrosion and magnetism have been put together in original works produced by invited speakers and different research teams across the continent Characterization of Condensed Matter Yujun Song, Qingwei Liao, 2023-08-02 Characterization of Condensed Matter A comprehensive and accessible introduction to the characterization of condensed materials The characterization of condensed materials is a crucial aspect of materials science The science underlying this area of research and analysis is interdisciplinary combining electromagnetic spectroscopy surface and interface testing methods physiochemical analysis methods and more All of this must be brought to bear in order to understand the relationship between microstructures and larger scale properties of condensed matter Characterization of Condensed Matter An Introduction to Composition Microstructure and Surface Methods introduces the technologies involved in the characterization of condensed matter and their many applications It incorporates more than a decades experience in teaching a successful undergraduate course in the subject and emphasizes accessibility and continuously reinforced learning The result is a survey which promises to equip students with both underlying theory and real experimental instances of condensed matter characterization Characterization of Condensed

Matter readers will also find Detailed treatment of techniques including electromagnetic spectroscopy X ray diffraction X ray absorption electron microscopy surface and element analysis and more Incorporation of concrete experimental examples for each technique Exercises at the end of each chapter to facilitate understanding Characterization of Condensed Matter is a useful reference for undergraduates and early career graduate students seeking a foundation and reference for these essential techniques American Journal of Physics ,1990

**The Analysis of Nuclear Materials and Their Environments** Claude André Degueldre,2017-10-11 This book provides an overview of passive and interactive analytical techniques for nuclear materials The book aims to update readers on new techniques available and provide an introduction for those who are new to the topic or are looking to move into actinides and nuclear materials science The characterization of actinide species and radioactive materials is vital for understanding how these elements and radioactive isotopes are formed and behave and how these materials can be improved The analysis of the actinides or radioactive materials goes beyond spent fuel science to the applicable complete fuel cycle and including analysis of reactor materials

**Study of Second Generation High Temperature Superconductors: Electromagnetic Characteristics and AC Loss Analysis** Boyang Shen,2020-08-31 This thesis introduces a systematic study on Second Generation 2G High Temperature Superconductors HTS covering a novel design of an advanced medical imaging device using HTS and an in depth investigation on the losses of HTS The text covers the design and simulation of a superconducting Lorentz Force Electrical Impedance Tomography This is potentially a significant medical device that is more efficient and compact than an MRI and is capable of detecting early cancer as well as other pathologies such stroke and internal haemorrhages It also presents the information regarding the fundamental physics of superconductivity concentrating on the AC losses in superconducting coils and tapes Overall the thesis signifies an important contribution to the investigation of High Temperature Superconductors This thesis will be beneficial to the development of advanced superconducting applications in healthcare as well as more broadly in electrical and energy systems

*The Standard Periodical Directory* ,2001

**Physics Briefs** ,1994

**Handbook of the Chemical Elements** Hermann Sicius,2024-10-28 This reference work describes comprehensively compactly and precisely the history properties production and application of all elements of the periodic table Particular attention is paid to the chemical compounds of the elements which are also presented extensively This book contains 23 chapters each of which includes the elements in the form of subchapters of the eight main groups the first and second as well as the fourth to tenth subgroups the rare earth metals and the third subgroup as well as the actinides Finally there is an outlook on the as yet undiscovered elements of the eighth and ninth periods on alternative more environmentally friendly drives for motor vehicles such as batteries and fuel cells as well as on semiconductor technology i e areas that will continue to see increasing research activity in the future Whenever possible the author has always maintained the order of chalcogenides halides pnictogenides and other compounds when presenting the chemical compounds of the elements The introductory part which illuminates the

history of the respective element often contains biographies of well known researchers whose creative periods range from the near past to the Middle Ages You will not only find portraits of chemists but also of nuclear physicists astronomers and medical doctors



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