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Tunneling Systems in Amorphous and Crystalline Solids



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Tunneling Systems In Amorphous And Crystalline Solids

Igor Osad'ko



Tunneling Systems In Amorphous And Crystalline Solids:

Tunneling Systems in Amorphous and Crystalline Solids Pablo Esquinazi, 2013-03-09 The aim of this book is to provide a wealth of information on the influence of quantum tunneling systems on the low temperature properties of solids. The nineteen contributors of this book review thermodynamic, acoustic, dielectric and optical properties of amorphous and crystalline solids in eight chapters. The newest experiments on long time spectral diffusion and heat release, electric field and strain effects as well as nonequilibrium phenomena are thoroughly discussed. Several theoretical contributions provide an overview of the most original ideas and theoretical methods used nowadays to understand the nature and dynamics of tunneling systems in solids and their interactions. The book provides full description on the experimental and theoretical details of the relevant experiments and theories. Within the broad spectrum of properties that are related to the contribution of tunneling systems, I have selected special topics which will be of value for experienced as well as graduate students working on low temperature research. Most of the chapters serve as useful introductory surveys since they are not too specialized. I wish to express my thanks to the following colleagues for their important comments on several chapters of this book: Ansel C. Anderson, Guy Bellessa, Dimitri Parshin, Roman Personov, Robert Silbey, James Skinner, Ulrich Weiss and Helmut Wipf. I would like to thank Mrs. Annette Setzer for her help with the reference list as well as to the co-workers at the Department of Superconductivity and Magnetism, Universität Leipzig for their support. *Multiphoton and Light Driven Multielectron Processes in Organics: New Phenomena, Materials and Applications* F. Kajzar, Vladimir M.

Agranovich, 2012-12-06 Proceedings of the NATO Advanced Research Workshop, Menton, France, 26-31 August 1999

Low-temperature Thermal And Vibrational Properties Of Disordered Solids: A Half-century Of Universal "Anomalies" Of Glasses Miguel A. Ramos, 2022-08-11 This book, edited by M. A. Ramos and contributed by several reputed physicists in the field, presents a timely review on low temperature thermal and vibrational properties of glasses and of disordered solids in general. In 1971 the seminal work of Zeller and Pohl was published which triggered this relevant research field in condensed matter physics. Hence, this book also commemorates about 50 years of that highlight with a comprehensive updated review. In brief, glasses, firstly genuine amorphous solids, but later on followed by different disordered crystals, were found to universally exhibit low temperature properties specific heat, thermal conductivity, acoustic and dielectric attenuation etc., unexpectedly very similar among them and very different from those of their crystalline counterparts. These universal anomalies of glasses and other disordered solids remain very controversial topics in condensed matter physics. They have been addressed exhaustively in this book through many updated experimental data, a survey of most relevant models and theories as well as by computational simulations. Quantum Dissipative Systems (Fourth Edition) Ulrich Weiss, 2012-03-05 Starting from first principles, this book introduces the fundamental concepts and methods of dissipative quantum mechanics and explores related phenomena in condensed matter systems. Major experimental

achievements in cooperation with theoretical advances have brightened the field and brought it to the attention of the general community in natural sciences Nowadays working knowledge of dissipative quantum mechanics is an essential tool for many physicists This book originally published in 1990 and republished in 1999 and 2008 as enlarged second and third editions delves significantly deeper than ever before into the fundamental concepts methods and applications of quantum dissipative systems This fourth edition provides a self contained and updated account of the quantum mechanics of open systems and offers important new material including the most recent developments The subject matter has been expanded by about fifteen percent Many chapters have been completely rewritten to better cater to both the needs of newcomers to the field and the requests of the advanced readership Two chapters have been added that account for recent progress in the field This book should be accessible to all graduate students in physics Researchers will find this a rich and stimulating source

Atom Tunneling Phenomena in Physics, Chemistry and Biology Tetsuo Miyazaki, 2013-04-17 Atom tunneling phenomena are a new paradigm in the science of materials This book provides a wealth of interesting information about atom tunneling phenomena in physics chemistry and biology Topics include the theory of atom tunneling reactions conclusive evidence and controlling factors for such reactions in solid hydrogen tunneling dislocation motion coherent tunneling diffusion the production of interstellar molecules and semiconductors using tunneling reactions the effect of atom tunneling on molecular structure and crystalline structure the suppression of mutation and cancer by an atom tunneling reaction of vitamin C and atom tunneling reactions of vitamin E and of enzymes This book provides graduate students and nonspecialist readers with fascinating insights into the world of atom tunneling phenomena

Quantum Dissipative Systems (Third Edition) Ulrich Weiss, 2008-03-04 Major advances in the quantum theory of macroscopic systems in combination with stunning experimental achievements have brightened the field and brought it to the attention of the general community in natural sciences Today working knowledge of dissipative quantum mechanics is an essential tool for many physicists This book originally published in 1990 and republished in 1999 as an enlarged second edition delves much deeper than ever before into the fundamental concepts methods and applications of quantum dissipative systems including the most recent developments In this third edition 26 chapters from the second edition contain additional material and several chapters are completely rewritten It deals with the phenomena and theory of decoherence relaxation and dissipation in quantum mechanics that arise from the interaction with the environment In so doing a general path integral description of equilibrium thermodynamics and nonequilibrium dynamics is developed

Quantum Dissipative Systems Ulrich Weiss, 2012 Starting from first principles this book introduces the fundamental concepts and methods of dissipative quantum mechanics and explores related phenomena in condensed matter systems Major experimental achievements in cooperation with theoretical advances have brightened the field and brought it to the attention of the general community in natural sciences Nowadays working knowledge of dissipative quantum mechanics is an essential tool for many physicists This book originally

published in 1990 and republished in 1999 and 2008 as enlarged second and third editions delves significantly deeper than ever before into the fundamental concepts methods and applications of quantum dissipative systems This fourth edition provides a self contained and updated account of the quantum mechanics of open systems and offers important new material including the most recent developments The subject matter has been expanded by about fifteen percent Many chapters have been completely rewritten to better cater to both the needs of newcomers to the field and the requests of the advanced readership Two chapters have been added that account for recent progress in the field This book should be accessible to all graduate students in physics Researchers will find this a rich and stimulating source

Insulating and Semiconducting Glasses Punit Boolchand, 2000 This book covers the principal topical issues in the basic science of glasses and amorphous thin films It also includes select applications of these materials in evolving technologies including digital recording imaging solar cells battery technology and field emission displays The book can serve as a text for a graduate course in glass science For an established researcher it provides in a concise form an overview of the basic materials research aspect of these fascinating materials

Physical Acoustics in the Solid State Bruno Lüthi, 2006-01-15 Physical Acoustics in the Solid State reviews the modern aspects in the field including many experimental results especially those involving ultrasonics It covers practically all fields of solid state physics After a review of the relevant experimental techniques and an introduction to the theory of elasticity the book details applications in the various fields of condensed matter physics

Resolving locations of defects in superconducting transmon qubits Bilmes, Alexander, 2019-12-09 Selective Spectroscopy of Single Molecules Igor Osad'ko, 2013-04-17 The main topic in this book is the low temperature selective spectroscopy of impurity centers It deals not only with the well developed methods of selective spectroscopy of molecular ensembles such as spectral hole burning fluorescence line narrowing and femtosecond photon echoes but also new methods of nanospectroscopy such as single molecule spectroscopy Both the theory and experimental data are discussed Theory united with experimental data enables one to organize the experimental facts This organization is of great importance especially for young researchers and students because it can provide better insight into the nature of the rather complicated dynamics of guest molecules in polymers and glasses where our understanding is still somewhat lacking The book mainly addresses young researchers and graduate students studying modern methods of spectroscopy of solid solutions For this reason all formulas commonly used in practice are derived in this book The reader will also find new approaches and formulas which have been used by the author but are not well known to the majority researchers When the derivation of a formula seems rather complicated it is included in appendix The reader is then free to look the derivation up if he or she is interested Otherwise the book can be read without reference to these sections The book includes many examples where theory helps us to interpret experimental data of various types for instance the data on line and hole broadening

Low-Temperature Physics Christian Enss, Siegfried Hunklinger, 2005-12-05 Science is often a journey to the limits of the feasible and ascertainable In

low temperature physics this journey strives towards absolute zero When Louis Cailletet on December 2nd 1877 realized a major step in terms of the production of low temperatures namely the first liquefaction of oxygen he could hardly imagine the wealth of exciting physical phenomena that would be discovered in this field Despite the anticipation from everyday experience which generally equates cold with discomfort and stifling condensed matter at low temperatures reveals a wide array of fascinating properties As the most prominent examples let us mention superfluidity and superconductivity whose attraction is undiminished since their discovery With every step towards lower temperatures numerous new insights have resulted which make the traditional subject of low temperature physics an attractive and modern research topic The present book is based on material from lectures that both authors have given several times at the universities of Heidelberg Bayreuth and Konstanz It is focused on the discussion of physical phenomena that become most apparent at low temperatures The book is mainly aimed at students and provides a compact and comprehensible introduction to various topics of low temperature physics Selection and emphasis of the material is subjective and certainly reflects our personal preferences However we have tried to give room for as wide a spectrum of topics as possible The contents are organized in three parts entitled quantum fluids solids at low temperatures and principles of refrigeration and thermometry

Fundamentals of Femtosecond Optics S A

Kozlov, V V Samartsev, 2013-05-22 Femtosecond optics involves the study of ultra short pulses of light Understanding the behaviour of these light pulses makes it possible to develop ultra fast lasers with a wide range of applications in such areas as medical imaging chemical analysis and micro machining Written by two leading experts in the field this book reviews the theory of the interaction of femtosecond light pulses with matter femtosecond lasers and laser systems and the principles of femtosecond coherent spectroscopy of impurity amorphous media reviews the theory of the interaction of femtosecond light pulses with matter Discusses femtosecond lasers and laser systems Considers the principles of femtosecond coherent spectroscopy of impurity amorphous media

Quantum Aspects of Molecular Motions in Solids Anton

Heidemann, Andreas Magerl, Michael Prager, Dieter Richter, Tasso Springer, 2012-12-06 The Institut Max von Laue Paul Langevin ILL in Grenoble regularly organizes workshops that deal with various applications of neutrons in physics chemistry biology and materials science The workshop Quantum Aspects of Molecular Motions in Solids was jointly organized by the Institut Laue Langevin and the Institut für Festkörperforschung at the Kernforschungsanlage Jülich and took place in September 1986 in Grenoble Tunneling phenomena in molecular crystals were first observed with macroscopic methods like specific heat experiments and later also with NMR Finally the development of high resolution neutron scattering techniques like neutron backscattering led to direct spectroscopic observation of the tunnel split ground state This breakthrough was achieved in 1975 at Jülich Since then the large variety of high resolution techniques available in combination with high neutron flux have turned ILL into the leading laboratory in the field of tunneling spectroscopy Since 1980 regular meetings of scientists involved in this topic have been organized every two years Jülich Braunschweig Nottingham and have led to an

intense exchange of ideas and experimental results The present workshop is the fourth of this series and the first with published proceedings presenting the state of the art in this field The eight review articles introduce scientists not involved in the subject to the actual discussion Sessions on translational tunneling of light interstitials in metals as well as on tunneling phenomena in amorphous substances provide bridges to adjacent fields **From Coherent Tunneling to**

Relaxation Alois Würger, 2007-09-28 From Coherent Tunneling to Relaxation is an impressive review of ten years of progress in our understanding of interacting tunneling systems The dielectric and elastic response of 111 off center impurities in alkali halides is investigated in detail and the coherent motion of an impurity pair is discussed in view of recently observed rotary echoes The low temperature properties of defect crystals with an impurity concentration higher than 100 ppm are reviewed and the dipolar interaction is shown to drive the cross over to relaxational dynamics This comprehensive presentation of the theory is illustrated by experimental data for lithium cyanide and hydroxyl impurities in various host crystals This monograph is an ideal reference book for scientists working with defect crystals and glasses

Symbol and Physical Knowledge M. Ferrari, I.-O. Stamatescu, 2013-04-17 The question of the symbolic structure of physics is implicitly involved in any discussion about the character of physical knowledge and the development of physical theories Actually many discussions would greatly profit from an explicit reference to and an investigation of this question and much confusion may be avoided in this way A book directly addressing the use and character of symbols in physics may help provide a point of view which is in the background of any consideration in the theory of knowledge and which is to be sure very relevant today but strangely enough often seems to be missing as an explicit and central perspective in the present epistemological debates The concept of symbol has different meanings Its wide diffusion in various cultural fields such as religion mythology art and psychoanalysis constitutes the best proof of its semantic variety but also of the danger of using it in too vague a way We start here from the concept of symbol conceived in the general sense of a sign or a material medium which is able on the one hand to communicate mental or conceptual contents and on the other hand to designate things or situations in the world In this way symbols make it possible for human knowledge to translate the mental activity grasping the real in conceptual frames formal or natural languages scientific propositions theories and so on **Cumulated Index**

to the Books, 1999 Intrinsic Multiscale Structure And Dynamics In Complex Electronic Oxides, Proceedings Of The Workshop A R Bishop, Subodh R Shenoy, Srinivas Sridhar, 2003-06-02 There is considerable interest in the intrinsically multiscale structure and dynamics of complex electronic oxides especially since these materials include those of technological importance such as colossal magnetoresistance manganites and cuprate high temperature superconductors Current microscopies such as diffuse X ray and inelastic neutron scattering electromagnetic and acoustic response NMR and scanning tunneling microscope probes have revealed static and dynamic multiscale patterns in charge positioning lattice structure and magnetic orientation that respond to both external stress and magnetic field These self organized patterns

include charge and orbital ordering stripes in strain spin and labyrinth like conductance modulations The materials exhibit nanoscale phase segregation and mesoscale inhomogeneous clustering and their phase transitions can have a percolative character This volume presents experimental and theoretical work on these exciting new developments in condensed matter physics and materials science

The Metal-Hydrogen System Yuh Fukai, 2006-05-06 Metal hydrides are of inestimable importance for the future of hydrogen energy This unique monograph presents a clear and comprehensive description of the bulk properties of the metal hydrogen system The statistical thermodynamics is treated over a very wide range of pressure temperature and composition Another prominent feature of the book is its elucidation of the quantum mechanical behavior of interstitial hydrogen atoms including their states and motion The important topic of hydrogen interaction with lattice defects and its materials science implications are also discussed thoroughly This second edition has been substantially revised and updated

The Glass Transition E. Donth, 2013-04-17 The glass transition is well known to glass makers or from the common experience of drying a used chewing gum A liquid melt or a rubber becomes a solid glass when its temperature is lowered or a solvent is extracted without crystallization There are also dynamic effects The viscosity of a liquid is small at high temperatures but increases dramatically as cooling proceeds down to the glass temperature T_g The increase is continuous and amounts to about fifteen orders of magnitude The technical importance of the glass transition cannot be overestimated A few examples will be presented in the Introduction Most practical knowledge of the glass transition needed for glass or plastic technologies and applications is now readily available Where then is the problem In the last few years glass transition research has enormously intensified We now have several hundred papers a year in expensive top scientific journals In a 1995 Science magazine ranking the glass transition belongs to the six major physical quests along with broken charges physical input for low dimensional geometry measurement philosophy in quantum mechanics coherent X ray radiation for materials research and applications of superconductivity On the other hand interested people outside the glass transition community have difficulty seeing exactly what the glass transition problems are In addition even insiders split into groups over which question could be the most important for slow dynamics in cold liquids

Tunneling Systems In Amorphous And Crystalline Solids Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Tunneling Systems In Amorphous And Crystalline Solids**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Tunneling Systems In Amorphous And Crystalline Solids Introduction

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