

Topics in Current Physics

Amorphous Solids Low-Temperature Properties

Editor: W. A. Phillips

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Amorphous Solids Low Temperature Properties

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Amorphous Solids Low Temperature Properties:

Amorphous Solids William A. Phillips, 2012-12-06 It is now ten years since it was first convincingly shown that below 1 K the thermal conductivity and the heat capacity of amorphous solids behave in a way which is strikingly different to that of crystalline solids Since that time there has been a wide variety of experimental and theoretical studies which have not only defined and clarified the low temperature problem more closely but have also linked these differences between amorphous and crystalline solids to those suggested by older acoustic and thermal experiments extending up to 100 K The interest in this somewhat restricted branch of physics lies to a considerable extent in the fact that the differences were so unexpected It might be thought that as the temperature probing frequency or more generally the energy decreases a continuum description in which structural differences between glass and crystal are concealed should become more accurate In a sense this is true but it appears that there exists in an amorphous solid a large density of additional excitations which have no counterpart in normal crystals This book presents a survey of the wide range of experimental investigations of these low energy excitations together with a review of the various theoretical models put forward to explain their existence and nature

Amorphous Solids William A. Phillips, 1981-03-01 It is now ten years since it was first convincingly shown that below 1 K the thermal conductivity and the heat capacity of amorphous solids behave in a way which is strikingly different to that of crystalline solids Since that time there has been a wide variety of experimental and theoretical studies which have not only defined and clarified the low temperature problem more closely but have also linked these differences between amorphous and crystalline solids to those suggested by older acoustic and thermal experiments extending up to 100 K The interest in this somewhat restricted branch of physics lies to a considerable extent in the fact that the differences were so unexpected It might be thought that as the temperature probing frequency or more generally the energy decreases a continuum description in which structural differences between glass and crystal are concealed should become more accurate In a sense this is true but it appears that there exists in an amorphous solid a large density of additional excitations which have no counterpart in normal crystals This book presents a survey of the wide range of experimental investigations of these low energy excitations together with a review of the various theoretical models put forward to explain their existence and nature

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Low Temperature Properties of Amorphous Solids J. N. Page,1987 **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 *The Physics of Phonons* G.P Srivastava,2019-07-16 There have been few books devoted to the study of phonons a major area of condensed matter physics The Physics of Phonons is a comprehensive theoretical discussion of the most important topics including some topics not previously presented in book form Although primarily theoretical in approach the author refers to experimental results wherever possible ensuring an ideal book for both experimental and theoretical researchers The author begins with an introduction to crystal symmetry and continues with a discussion of lattice dynamics in the harmonic approximation including the traditional phenomenological approach and the more recent ab initio approach detailed for the first time in this book A discussion of anharmonicity is followed by the theory of lattice thermal conductivity presented at a level far beyond that available in any other book The chapter on phonon interactions is likewise more comprehensive than any similar discussion elsewhere The sections on phonons in superlattices impure and mixed crystals quasicrystals phonon spectroscopy Kapitza resistance and quantum evaporation also contain material appearing in book form for the first time The book is complemented by numerous diagrams that aid understanding and is comprehensively referenced for further study With its unprecedented wide coverage of the field The Physics of Phonons will be indispensable to all postgraduates advanced undergraduates and researchers working on condensed matter physics **Thermal Conductivity** C.J. Cremers,H.A. Fine,H. Alan Fine,1990 Fifty one papers and three keynote addresses on contemporary theoretical issues and experimental techniques pertaining to the underlying factors that control heat conduction behavior of

materials The latest findings on insulation fluids and low dimensional solids and composites are reviewed as

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 *LT 21: Low temperature properties of solids I*, 1996

Thermodynamic and Kinetic Aspects of the Vitreous State S.V. Nemilov, 2018-01-18 This is the first book to logically present the major problems of the vitreous state within the framework of irreversible thermodynamics Filled with elementary explanations for difficult problems this easily understood text reference treats in detail the criteria of glass transition the peculiarities of relaxing structural parameters and the Prigogine Defay ratio Based on the author's rigorous generalization of the Second Law for non equilibrium the book systematizes all known thermodynamic data for glasses and melts The thermodynamic essence of structural relaxation and memory effects are considered The viscous flow theories are treated as a constituent of the kinetic description All theoretical questions are illustrated by comparison of calculations with the experiments for glasses of inorganic and organic nature with special attention to structural classification An informative review of modern structural investigations is included The bibliography follows the history of the main problems from the nineteenth century

Optical Spectroscopy of Glasses I. Zschokke, 2012-12-06 During the last fifteen years the field of the investigation of glasses has experienced a period of extremely rapid growth both in the development of new theoretical approaches and in the application of new experimental techniques After these years of intensive experimental and theoretical work our understanding of the structure of glasses and their intrinsic properties has greatly improved In glasses we are confronted with the full complexity of a disordered medium The glassy state is characterised not only by the absence of any long range order in addition a glass is in a non equilibrium state and relaxation processes occur on widely different time scales even at low temperatures Therefore it is not surprising that these complex and novel physical properties have provided a strong stimulus for work on glasses and amorphous systems The strikingly different properties of glasses and of crystalline solids e.g the low temperature behaviour of the heat capacity and the thermal conductivity are based on characteristic degrees of freedom described by the so called two level systems The random potential of an amorphous solid can be represented by an ensemble of asymmetric double minimum potentials This ensemble gives rise to a new class of low lying excitations unique to glasses These low energy modes arise from tunneling through a potential barrier of an atom or molecule between the two minima of a double well

Single-Molecule Optical Detection, Imaging and Spectroscopy W. E.

Moerner, M. Orrit, U. P. Wild, Thomas Basché, 2008-09-26 Single Molecule Spectroscopy is one of the hottest topics in today's chemistry. It brings us close to the most exciting vision generations of chemists have been dreaming of: To observe and examine single molecules. While most of chemistry deals with myriads of molecules, this book presents the latest developments for the detection and investigation of single entities. Written by internationally renowned authors, it is a thorough and comprehensive survey of current methods and their applications. **Lasers in Polymer Science and Technology**

Jan F. Rabek, Jean-Pierre Fouassier, 1989-11-30 The purpose of this 4 volume set is to examine some of the applications of lasers in polymer science and technology. Now available for the first time, up-to-date information on this fascinating subject is compiled and presented in compact form. This set focuses on current research and developments in the application of lasers in polymer and biopolymer chemistry. It includes experimental and theoretical details, apparatus techniques, and applications. This set is a useful source for researchers, students, polymer chemists, and physicists involved in this astonishing field of high technology. *Defects in Insulating Materials* G.E. Matthews, R.T. Williams, 1997-01-14

Proceedings of the 13th International Conference on Defects in Insulating Materials ICDIM 96 Winston Salem USA July 1996

"Glassy" Low Temperature Thermal Properties in Crystalline Solids, 1976 Amorphous dielectrics are known to exhibit anomalous low temperature properties. An extensive review of these properties is presented with an eye toward an understanding of low lying excitation modes thought to exist in glasses. Work on these systems is described in which a Zr 20 percent Nb sample which would be expected to reduce and redistribute the proposed tunneling states. Indeed, the thermal conductivity becomes similar to that of a quenched Zr 8 percent Nb sample and the excess specific heat linear in temperature dependence is reduced to half the value found in quenched Zr 20 percent Nb. The coefficient of the T^3 term in the specific heat unexpectedly increased from 23.3 to 56.9 erg/gm K⁴ and this is attributed to a softening of the lattice due to annealing. The specific heat of this sample was remeasured after it had been dunked in liquid nitrogen. The cubic term was then found to be 19.5 erg/g K⁴ smaller than that in quenched Zr 20 percent Nb, an effect which had been expected due to the chemical diffusion during annealing. Further study of this phenomenon is suggested. Among other relevant measurements performed were the specific heat of a sample of amorphous B₂O₃ presented by Stephens 1976, thermal conductivities of phase separated unleached Vycor glass and Pyrex thermal conductivities above 1.2 K of polycrystalline MgO heat treated Pyroceram and porous Vycor presented by Tait 1975 and of mixed crystal KBr KI presented by Nathan Lou and Tait 1976. The last sample exhibited density fluctuations on a scale of 1000 Å but exhibited thermal properties typical of dielectric crystal. Speed of sound measurements were made on both unleached and porous Vycor. *Chemical Dynamics at Low Temperatures, Volume 88* Ilya Prigogine, 1958 The first unified treatment of experimental and theoretical advances in low temperature chemistry. *Chemical Dynamics at Low Temperatures* is a landmark publication. For the first time the cumulative results of twenty years of experimental and theoretical research into low temperature chemistry have been collected and

presented in a unified treatment The result is a text reference that both offers an overview of the subject and contains sufficient detail to guide practicing researchers toward fertile ground for future research Topics covered include Developmental history Formulation of general problems and the main approximations used to solve them Specific features of tunneling chemical dynamics One dimensional tunneling in the path integral formalism Special problems of two and multidimensional tunneling An extended presentation of pertinent experimental results

Energy Research Abstracts, 1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

Proceedings of the 7th General Conference of the Condensed Matter Division of the European Physical Society European Physical Society. Condensed Matter Division. General Conference, 1987 Disordered Systems and New Materials Milko Borisov, Nikolai Kirov, Aleksandur Vavrek, 1989 *Soviet Physics, Solid State*, 1991

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