

# **Nuclear Spectroscopy on Charge Density Wave Systems**

**Edited by  
Tilman Butz**



**Physics and Chemistry  
of Materials with  
Low-Dimensional Structures**

**Kluwer Academic Publishers**

# Nuclear Spectroscopy On Charge Density Wave Systems

**Robert Blinc**



## **Nuclear Spectroscopy On Charge Density Wave Systems:**

Nuclear Spectroscopy on Charge Density Wave Systems T. Butz, 2013-04-17 Nuclear magnetic resonance NMR nuclear quadrupole resonance NQR time differential perturbed angular correlations TDPAC and the Mossbauer effect ME have been applied to the study of charge density wave CDW systems These hyperfine techniques provide unique tools to probe the structure and symmetry of commensurate CDWs give a clear fingerprint of incommensurate CDWs and are ideally suited for CDW dynamics This book represents a new attempt in the series Physics and Chemistry of Materials with Low dimensional Structures to bring together a consistent group of scientific results obtained by nuclear spectroscopy related to CDW phenomena in pseudo one and two dimensional systems The individual chapters contain the theory of CDWs in chain like transition metal tetrachalcogenides NMR NQR TDPAC and ME investigations of layered transition metal dichalcogenides NMR studies of CDW transport in chain like NbSe<sub>3</sub> and molybdenum bronzes multinuclear NMR of KCP high resolution NMR of organic conductors This book is of interest to graduate students and all scientists who want to acquire a broader knowledge of nuclear spectroscopy techniques applied to CDW systems

**Nuclear Spectroscopy on Charge Density Wave Systems** Tilman Butz, 2014-01-15 Nuclear magnetic resonance NMR nuclear quadrupole resonance NQR time differential perturbed angular correlations TDPAC and the Mossbauer effect ME have been applied to the study of charge density wave CDW systems These hyperfine techniques provide unique tools to probe the structure and symmetry of commensurate CDWs give a clear fingerprint of incommensurate CDWs and are ideally suited for CDW dynamics This book represents a new attempt in the series Physics and Chemistry of Materials with Low dimensional Structures to bring together a consistent group of scientific results obtained by nuclear spectroscopy related to CDW phenomena in pseudo one and two dimensional systems The individual chapters contain the theory of CDWs in chain like transition metal tetrachalcogenides NMR NQR TDPAC and ME investigations of layered transition metal dichalcogenides NMR studies of CDW transport in chain like NbSe<sub>3</sub> and molybdenum bronzes multinuclear NMR of KCP high resolution NMR of organic conductors This book is of interest to graduate students and all scientists who want to acquire a broader knowledge of nuclear spectroscopy techniques applied to CDW systems

**Advances in the Crystallographic and Microstructural Analysis of Charge Density Wave Modulated Crystals** F.W. Boswell, J. Craig Bennett, 2012-12-06 Modulated crystals have been intensively investigated over the past several years and it is now evident that an understanding of their crystallography and microstructure is fundamental to the elucidation of the physical properties and phase transitions in these materials This book brings together for the first time the crystallographic descriptions and experimental methods for the structural and microstructural analysis of modulated crystals as described by well known researchers in the various areas The emphasis is on charge density wave modulations and the detailed analysis of the prototypical NbTe<sub>4</sub> TaTe<sub>4</sub> system gives practical applications of the methods Scanning Tunnelling Microscopy is a new technique providing significant new insights into atomic scale details of the modulations

structures and a chapter on this method is included

### **The Physics of Fullerene-Based and Fullerene-Related**

**Materials** W. Andreoni, 2012-12-06 Kr tschmer and Huffman s revolutionary discovery of a new solid phase of carbon solid C60 in 1990 opened the way to an entire new class of materials with physical properties so diverse that their richness has not yet been fully exploited Moreover as a by product of fullerene research carbon nanotubes were later identified from which novel nanostructures originated that are currently fascinating materials scientists worldwide Rivers of words have been written on both fullerenes and nanotubes in the form of journal articles conference proceedings and books The present book offers in a concise and self contained manner the basics of the science of these materials as well as detailed information on those aspects that have so far been better explored Structural electronic and dynamical properties are described as obtained from various measurements and state of the art calculations Their interrelation emerges as well as their possible dependence on for example preparation conditions or methods of investigation By presenting and comparing data from different sources experiment and theory this book helps the reader to rapidly master the basic knowledge to grasp important issues and critically discuss them Ultimately it aims to inspire him or her to find novel ways to approach still open questions As such this book is addressed to new researchers in the field as well as experts

*Advanced Ferroelectricity* Robert Blinc, 2011-08-25

The field of ferroelectricity has greatly expanded and changed in recent times In addition to classical organic and inorganic ferroelectrics new fields and materials unknown or inactive 20 to 40 years ago have appeared They are important for both basic science and applications and show technological promise for novel multifunctional devices New fields include multiferroic magnetoelectric systems where spontaneous polarization and spontaneous magnetization are allowed to coexist incommensurate ferroelectrics where the periodicity of the order parameter is incommensurate to the periodicity of the underlying basic crystal lattice ferroelectric liquid crystals dipolar glasses relaxor ferroelectrics ferroelectric thin films nanoferroelectrics These new fields are not only of basic physical interest but also of great technological importance allowing the design of new memory devices spintronic applications and the design of electro optic devices They are also important for applications in acoustics robotics telecommunications and medicine The book is primarily intended for material scientists working in research or industry It is also intended for graduate and doctoral students and can be used as a textbook in graduate courses Finally it should be useful for anybody interested in following the developments in modern solid state physics

### **Electron Spectroscopies Applied to Low-Dimensional Structures** H.P. Hughes, H. Starnberg, 2006-04-11

The effect of reduced dimensionality inherent at the crystallographic level on the electronic properties of low dimensional materials can be dramatic leading to structural and electronic instabilities including superconductivity at high temperatures charge density waves and localisation which continue to attract widespread interest The layered transition metal dichalcogenides have engaged attention for many years partly arising from the charge density wave effects which some show and the controlled way in which their properties can be modified by intercalation while the development of epitaxial growth

techniques has opened up promising areas based on dichalcogenide heterostructures and quantum wells The discovery of high temperature superconducting oxides and the realisation that polymeric materials too can be exploited in a controlled way for various opto electronic applications have further stimulated interest in the effects of structural dimensionality It seems timely therefore to draw together some strands of recent research involving a range of disparate materials which share some common characteristics of low dimensionality This resulting volume is aimed at researchers with specialist interests in the particular materials discussed but who may also wish to examine the related phenomena observed in different systems and at a more general solid state audience with broad interests in electronic properties and low dimensional phenomena Space limitations have required us to be selective as regards particular materials though we have managed to include those as dissimilar as polymeric semiconductors superconducting oxides bronzes and layered chalcogenides *Electronic Properties of Fullerenes* Hans Kuzmany,Jörg Fink,Michael Mehring,Siegmar Roth,2012-12-06 *Electronic Properties of Fullerenes and other Novel Materials* gives an overview of the state of the art research It presents most recent results on preparation experimental analysis by electron spectroscopy infrared and Raman spectroscopy luminescence and nonlinear optical as well as possible technological applications Emphasis is also placed on the superconducting properties of Fullerenes The introductory and advanced contributions provide a good survey of the current status of this rapidly developing field

*Proceedings of Physical Phenomena at High Magnetic Fields-II*, 1996 **Neutron Scattering in Layered Copper-Oxide Superconductors** Albert Furrer,2012-12-06 The phenomenon of superconductivity after its discovery in metals such as mercury lead zinc etc by Kamerlingh Onnes in 19 has attracted many scientists Superconductivity was described in a very satisfactory manner by the model proposed by Bardeen Cooper and Schrieffer and by the extensions proposed by Abrikosov Gorkov and Eliashberg Relations were established between superconductivity and the fundamental properties of solids resulting in a possible upper limit of the critical temperature at about 23 K The breakthrough that revolutionized the field was made in 1986 by Bednorz and Muller with the discovery of high temperature superconductivity in layered copper oxide perovskites Today the record in transition temperature is 133 K for a Hg based cuprate system The last decade has not only seen a revolution in the size of the critical temperature but also in the myriads of research groups that entered the field In addition high temperature superconductivity became a real interdisciplinary topic and brought together physicists chemists and materials scientists who started to investigate the new compounds with almost all the available experimental techniques and theoretical methods As a consequence we have witnessed an avalanche of publications which has never occurred in any field of science so far and which makes it difficult for the individual to be thoroughly informed about the relevant results and trends Neutron scattering has outstanding properties in the elucidation of the basic properties of high temperature superconductors **Carbyne and Carbynoid Structures** R.B. Heimann,S.E. Evsyukov,Ladislav Kavan,1999-02-28 This is a book on one of the most fascinating and controversial areas in contemporary science of carbon

chemistry and materials science It concisely summarizes the state of the art in topical and critical reviews written by professionals in this and related fields **Nuclear Science Abstracts** ,1966 ERDA Energy Research Abstracts United States. Energy Research and Development Administration,1977 **Progress in Intercalation Research** W. Müller-Warmuth,R. Schöllhorn,2012-12-06 The combination of solid materials of different structural dimensionality with atomic or molecular guest species via intercalation processes represents a unique and widely variable low temperature synthesis strategy for the design of solids with particular composition structure and physical properties In the last decade this field has experienced a rapid development and represents now an established specific domain of solid state research and materials science Substantial progress has been made with respect to an understanding of the complex relationship between structure bonding physical properties and chemical reactivity since the first volume on the subject appeared in this series in 1979 *Intercalated Layered Materials* F Levy ed The purpose of this volume is to present a survey on progress and perspectives based on the treatment of a series of major areas of activities in this field By the very nature of its subject this monograph has an interdisciplinary character and addresses itself to chemists physicists and materials scientists interested in intercalation research and related aspects such as design and characterization of complex materials low temperature synthesis solid state reaction mechanisms electronic ionic conductivity control of electronic properties of solids with different structural dimensionality and application of intercalation systems Several chapters have been devoted to specific groups of host lattices Energy Research Abstracts ,1993 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 **2004 Graduate Programs in Physics, Astronomy, and Related Fields** American Institute of Physics,2003-11-06 This comprehensive compendium provides information on nearly every U S doctoral program in physics and astronomy plus data on most major master s programs in these fields Information on many major Canadian programs is also included In addition the Graduate Programs directory lists a substantial number of related field departments including materials science electrical and nuclear engineering meteorology medical and chemical physics geophysics and oceanography This twenty eighth annual edition contains information valuable to students planning graduate study and faculty advisors including each program s research expenditures and sources of support A number of helpful appendices make navigating the directory a simple task

**Density Waves In Solids** George Gruner,2018-03-08 *Density Waves in Solids* is written for graduate students and scientists interested in solid state sciences It discusses the theoretical and experimental state of affairs of two novel types of broken symmetry ground states of metals charge and spin density waves These states arise as the consequence of electron

phonon and electron-electron interactions in low dimensional metals. Some fundamental aspects of the one dimensional electron gas and of the materials with anisotropic properties are discussed first. This is followed by the mean field theory of the phase transitions discussed using second quantized formalism together with the various experimental observations on the transition and on the ground states. Fluctuation effects and the collective excitations are reviewed next using the Ginzburg-Landau formalism followed by the review of the interaction of these states with the underlying lattice and with impurities. The final chapters are devoted to the response of the ground states to external perturbations.

**Scientific and Technical Aerospace Reports**, 1994. Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Physics Briefs, 1992.

Structural Phase Transitions II. K. Alex Müller, Harry Thomas, 2013-03-14. Structural Phase Transitions II like its predecessor Topics in Current Physics Vol 23 presents selected methods and recent advances in the experimental investigation of phase transitions in solids. The two chapters in this volume deal with electron paramagnetic resonance EPR and with nuclear magnetic and nuclear quadrupole resonance NMR NQR. Both techniques are particularly sensitive to local properties. The chapter on EPR concentrates largely on the investigation of static properties including mean field behaviour critical and multicritical phenomena whilst NMR is shown to be a powerful tool for studying nonlinear dynamics incommensurate transitions and disordered systems. This book will serve as an excellent introduction to the methodology and applications of EPR and NMR NQR for all those wishing to become acquainted with these important tools for studying structural phase transitions.

Handbook of High-resolution Spectroscopy. Martin Quack, Frederic Merkt, 2011-09-26. The field of High Resolution Spectroscopy has been considerably extended and even redefined in some areas. Combining the knowledge of spectroscopy laser technology chemical computation and experiments Handbook of High Resolution Spectroscopy provides a comprehensive survey of the whole field as it presents itself today with emphasis on the recent developments. This essential handbook for advanced research students graduate students and researchers takes a systematic approach through the range of wavelengths and includes the latest advances in experiment and theory that will help and guide future applications. The first comprehensive survey in high resolution molecular spectroscopy for over 15 years. Brings together the knowledge of spectroscopy laser technology chemical computation and experiments. Brings the reader up to date with the many advances that have been made in recent times. Takes the reader through the range of wavelengths covering all possible techniques such as Microwave Spectroscopy Infrared Spectroscopy Raman Spectroscopy VIS UV and VUV. Combines theoretical computational and experimental aspects. Has numerous applications in a wide range of scientific domains. Edited by two leaders in this field. Provides an overview of rotational vibration electronic and photoelectron spectroscopy. Volume 1 Introduction Fundamentals of Molecular Spectroscopy. Volume 2 High Resolution Molecular Spectroscopy Methods and Results. Volume 3 Special Methods Applications.

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