

# **Electron Spectroscopies Applied to Low-Dimensional Materials**

Edited by

H.P. Hughes and H.I. Starnberg



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

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# Electron Spectroscopies Applied To Low Dimensional Materials

**H.P. Hughes, H. Starnberg**



## **Electron Spectroscopies Applied To Low Dimensional Materials:**

*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 optoelectronic 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 Low-Dimensional Materials Hui-Ming Cheng, Dai-Ming Tang, Xiaolong Zou, Lili Zhang, 2024-10-05 Low Dimensional Materials Bridging the Fundamental Principles to Practice Applications provides an overview of research on low dimensional materials devices and their applications There are seven chapters in the book starting from the basic quantum theory in chapter one to the control and characterization of the unique structures chapters two and four to the relation of the physical and chemical properties with structures chapter five and to the practical and promising applications in energy information and health chapter six before conclusions and future outlook in chapter seven Discusses the whole field of low dimensional materials from quantum mechanics and low dimensional effects to structure property relations various methods of fabrication and assembly techniques and a characterization of atomic and interface structures Covers a wide range of topics making it a map for readers to understand the fundamentals of low dimensional materials Written with a bottom up approach with a solid foundation of quantum mechanics thermodynamics and energy transport in low dimensional systems Two-dimensional Materials Pramoda Kumar Nayak, 2016-08-31 There are only a few discoveries and new technologies in materials science that have the potential to dramatically alter and revolutionize our material world Discovery of two dimensional 2D materials the thinnest form of materials to ever occur in nature is one of them After isolation of graphene from graphite in 2004 a whole other class of atomically thin materials dominated by surface effects and showing completely unexpected and extraordinary

properties has been created This book provides a comprehensive view and state of the art knowledge about 2D materials such as graphene hexagonal boron nitride h BN transition metal dichalcogenides TMD and so on It consists of 11 chapters contributed by a team of experts in this exciting field and provides latest synthesis techniques of 2D materials characterization and their potential applications in energy conservation electronics optoelectronics and biotechnology

**Strong Interactions in Low Dimensions** D. Baeriswyl, L. Degiorgi, 2007-09-29 This book provides an attempt to convey the colorful facets of condensed matter systems with reduced dimensionality Some of the specific features predicted for interacting one dimensional electron systems such as charge and spin density waves have been observed in many quasi one dimensional materials The two dimensional world is even richer besides d wave superconductivity and the Quantum Hall Effect perhaps the most spectacular phases explored during the last two decades many collective charge and spin states have captured the interest of researchers such as charge stripes or spontaneously generated circulating currents Recent years have witnessed important progress in material preparation measurement techniques and theoretical methods Today larger and better samples higher flux for neutron beams advanced light sources better resolution in electron spectroscopy new computational algorithms and the development of field theoretical approaches allow an in depth analysis of the complex many body behaviour of low dimensional materials The epoch when simple mean field arguments were sufficient for describing the gross features observed experimentally is definitely over The Editors aim is to thoroughly explain a number of selected topics the application of dynamical probes such as neutron scattering optical absorption and photoemission as well as transport studies both electrical and thermal Some of the more theoretical chapters are directly relevant for experiments such as optical spectroscopy transport in one dimensional models and the phenomenology of charge inhomogeneities in layered materials while others discuss more general topics and methods for example the concept of a Luttinger liquid and bosonization or duality transformations both promising tools for treating strongly interacting many body systems **Very**

**High Resolution Photoelectron Spectroscopy** Stephan Hüfner, 2007-04-10 Photoemission spectroscopy is one of the most extensively used methods to study the electronic structure of atoms molecules and solids and their surfaces This volume introduces and surveys the field at highest energy and momentum resolutions allowing for a new range of applications in particular for studies of high temperature superconductors *New Trends in Intercalation Compounds for Energy Storage*

Christian Julien, J.P. Pereira-Ramos, A. Momchilov, 2012-12-06 Recent advances in electrochemistry and materials science have opened the way to the evolution of entirely new types of energy storage systems rechargeable lithium ion batteries electrochroms hydrogen containers etc all of which have greatly improved electrical performance and other desirable characteristics This book encompasses all the disciplines linked in the progress from fundamentals to applications from description and modelling of different materials to technological use from general diagnostics to methods related to technological control and operation of intercalation compounds Designing devices with higher specific energy and power will

require a more profound understanding of material properties and performance This book covers the status of materials and advanced activities based on the development of new substances for energy storage      **Hard X-ray Photoelectron Spectroscopy (HAXPES)** Joseph Woicik, 2015-12-26 This book provides the first complete and up to date summary of the state of the art in HAXPES and motivates readers to harness its powerful capabilities in their own research The chapters are written by experts They include historical work modern instrumentation theory and applications This book spans from physics to chemistry and materials science and engineering In consideration of the rapid development of the technique several chapters include highlights illustrating future opportunities as well      **Electrochemical Storage Materials** Dirk C. Meyer, Tilmann Leisegang, Matthias Zschornak, Hartmut Stöcker, 2018-12-17 This work gives a comprehensive overview on materials processes and technological challenges for electrochemical storage and conversion of energy Optimization and development of electrochemical cells requires consideration of the cell as a whole taking into account the complex interplay of all individual components Considering the availability of resources their environmental impact and requirements for recycling the design of new concepts has to be based on the understanding of relevant processes at an atomic level

Electronic and Optical Properties of Graphite-Related Systems Chiun-Yan Lin, Rong-Bin Chen, Yen-Hung Ho, Ming-Fa Lin, 2017-12-12 This book provides an overview of electronic and optical properties of graphite related systems It presents a well developed and up to date theoretical model and addresses important advances in essential properties and diverse quantization phenomena Key features include various Hamiltonian models dimension enriched carbon related systems complete and unusual results detailed comparisons with the experimental measurements clear physical pictures and further generalizations to other emergent 2D materials It also covers potential applications such as touch screen panel devices FETs supercapacitors sensors LEDs solar cells photodetectors and photomodulators      Dielectric Spectroscopy of Electronic Materials Yuriy Poplavko, 2021-07-06 Dielectric Spectroscopy of Electronic Materials Applied Physics of Dielectrics incorporates the results of four decades of research and applications of dielectric spectroscopy for solids mostly for the investigation of materials used in electronics The book differs from others by more detailed analysis of the features of dielectric spectra conditioned by specific mechanisms of electrical polarization and conductivity Some original methods are presented in the simulation of frequency distributions relaxers and oscillators with methods proposed for various ferroelectrics frequency temperature dielectric spectra Also described are original methods for ferroelectrics on microwaves investigation including the features of thin films study The book is not burdened by complex mathematical proofs and should help readers quickly understand how to apply dielectric spectroscopy methods to their own research problems More advanced readers may also find this book valuable as a review of the key concepts and latest advances on the topics presented Introduces critical material characterization techniques by an expert with more than 40 years of experience in dielectric spectroscopy Reviews advances in dielectric spectroscopy methods to enable advances such as the miniaturization

of electronics at the nanoscale Provides an overview of polarization mechanisms utilizing different models i e oscillator and relaxation

*Organic Superconductivity* M. Hérítier, 2000

[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

[Principles of Electron Optics, Volume 4](#) Peter W. Hawkes, Erwin Kasper, 2022-05-10 Principles of Electron Optics Second Edition Advanced Wave Optics provides a self contained modern account of electron optical phenomena with the Dirac or Schrödinger equation as a starting point Knowledge of this branch of the subject is essential to understanding electron propagation in electron microscopes electron holography and coherence Sections in this new release include Electron Interactions in Thin Specimens Digital Image Processing Acquisition Sampling and Coding Enhancement Linear Restoration Nonlinear Restoration the Phase Problem Three dimensional Reconstruction Image Analysis Instrument Control Vortex Beams The Quantum Electron Microscope and much more Includes authoritative coverage of many recent developments in wave electron optics Describes the interaction of electrons with solids and the information that can be obtained from electron beam techniques Includes new content on multislice optics 3D reconstruction Wigner optics vortex beams and the quantum electron microscope

**Molecular Spectroscopy—Experiment and Theory** Andrzej Koleżyński, Magdalena Król, 2018-10-10 This book reviews various aspects of molecular spectroscopy and its application in materials science chemistry physics medicine the arts and the earth sciences Written by an international group of recognized experts it examines how complementary applications of diverse spectroscopic methods can be used to study the structure and properties of different materials The chapters cover the whole spectrum of topics related to theoretical and computational methods as well as the practical application of spectroscopic techniques to study the structure and dynamics of molecular systems solid state crystalline and amorphous materials surfaces and interfaces and biological systems As such the book offers an invaluable resource for all researchers and postgraduate students interested in the latest developments in the theory experimentation measurement and application of various advanced spectroscopic methods for the study of

materials     *Applied Spectroscopy and the Science of Nanomaterials* Prabhakar Misra, 2014-10-21 This book focuses on several areas of intense topical interest related to applied spectroscopy and the science of nanomaterials The eleven chapters in the book cover the following areas of interest relating to applied spectroscopy and nanoscience Raman spectroscopic characterization modeling and simulation studies of carbon nanotubes Characterization of plasma discharges using laser optogalvanic spectroscopy Fluorescence anisotropy in understanding protein conformational disorder and aggregation Nuclear magnetic resonance spectroscopy in nanomedicine Calculation of Van der Waals interactions at the nanoscale Theory and simulation associated with adsorption of gases in nanomaterials Atom precise metal nanoclusters Plasmonic properties of metallic nanostructures two dimensional materials and their composites Applications of graphene in optoelectronic devices and transistors Role of graphene in organic photovoltaic device technology Applications of nanomaterials in nanomedicine     **Encyclopedia of Materials** K. H. J. Buschow, 2001 Accompanying CD ROM contains The Encyclopedia of Materials Science and Technology on a web access disc     **Spectroscopy and Characterization of Nanomaterials and Novel Materials** Prabhakar Misra, 2022-04-08 Spectroscopy and Characterization of Nanomaterials and Novel Materials Comprehensive overview of nanomaterial characterization methods and applications from leading researchers in the field In Spectroscopy and Characterization of Nanomaterials and Novel Materials Experiments Modeling Simulations and Applications the editor Prabhakar Misra and a team of renowned contributors deliver a practical and up to date exploration of the characterization and applications of nanomaterials and other novel materials including quantum materials and metal clusters The contributions cover spectroscopic characterization methods for obtaining accurate information on optical electronic magnetic and transport properties of nanomaterials The book reviews nanomaterial characterization methods with proven relevance to academic and industry research and development teams and modern methods for the computation of nanomaterials structure and properties including machine learning approaches are also explored Readers will also find descriptions of nanomaterial applications in energy research optoelectronics and space science as well as A thorough introduction to spectroscopy and characterization of graphitic nanomaterials and metal oxides Comprehensive explorations of simulations of gas separation by adsorption and recent advances in Weyl semimetals and axion insulators Practical discussions of the chemical functionalization of carbon nanotubes and applications to sensors In depth examinations of micro Raman imaging of planetary analogs Perfect for physicists materials scientists analytical chemists organic and polymer chemists and electrical engineers Spectroscopy and Characterization of Nanomaterials and Novel Materials Experiments Modeling Simulations and Applications will also earn a place in the libraries of sensor developers and computational physicists and modelers     Cooperative Research Associateships, Post Doctoral Research Awards, 1990     **Extended Linear Chain Compounds** Joel S. Miller, 2013-11-11 Linear chain substances span a large cross section of contemporary chemistry ranging from covalent polymers to organic charge transfer complexes to

nonstoichiometric transition metal coordination complexes Their commonality which coalesced intense interest in the theoretical and experimental solid state physics chemistry communities was based on the observation that these inorganic and organic polymeric substrates exhibit striking metal like electrical and optical properties Exploitation and extension of these systems has led to the systematic study of both the chemistry and physics of highly and poorly conducting linear chain substances To gain a salient understanding of these complex materials rich in anomalous anisotropic electrical optical magnetic and mechanical properties the convergence of diverse skills and talents was required The constructive blending of traditionally segregated disciplines such as synthetic and physical organic inorganic and polymer chemistry crystallography and theoretical and experimental solid state physics has led to the timely development of a truly interdisciplinary science This is evidenced in the contributions of this monograph series Within the theme of Extended Linear Chain Compounds experts in important but varied facets of the discipline have reflected upon the progress that has been made and have cogently summarized their field of specialty Consequently up to date reviews of numerous and varied aspects of extended linear chain compounds have developed Within these volumes numerous incisive contributions covering all aspects of the diverse linear chain substances have been summarized *American Book Publishing Record* ,2000-07



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