

# Electronic Properties of Inorganic Quasi-One-Dimensional Compounds

PART II:  
*Experimental*

Edited by

Pierre Monceau

Physics and Chemistry  
of Materials with  
Low-Dimensional Structures

Series II  
Quasi-One-Dimensional Materials

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# Electronic Properties Of Inorganic Quasione-dimensional Compounds

**P. Monceau**



## **Electronic Properties Of Inorganic Quasione-dimensional Compounds:**

*Electronic Properties of Inorganic Quasi-One-Dimensional Compounds* P. Monceau, 2013-06-29 The close relationship between experimentalists and theorists whether solid state chemists or physicists has in the last few years inspired much research in the field of materials with quasi one dimensional structures This volume Part I of a two volume set reviews the basic theories describing the physical properties of one dimensional materials including their superconducting characteristics This description is mainly based on the properties of transition metal trichalcogenides The novel collective transport mechanism for electronic conduction exhibited by some of the latter compounds NbSe<sub>3</sub> being considered as the prototype is surveyed according to a classical theory and a theory including macroscopic quantum effects In addition the book contains a description of the properties of non linear excitations or solitons in one dimensional systems Electronic

Properties of Inorganic Quasi-One-Dimensional Compounds P. Monceau, 1985-03-31 The close relationship between experimentalists and theorists whether solid state chemists or physicists has in the last few years inspired much research in the field of materials with quasi one dimensional structures Part I of this two volume set reviews the basic theories describing the physical properties of one dimensional materials including their superconducting characteristics This description is mainly based on the properties of transition metal trichalcogenides The novel collective transport mechanism for electronic conduction exhibited by some of the latter compounds NbSe<sub>3</sub> being considered as the prototype is surveyed according to a classical theory and a theory including macroscopic quantum effects In addition the book contains a description of the properties of non linear excitations or solitons in one dimensional systems Part II of this two volume set deals with the experimental treatment of pseudo one dimensional conductors Included are contributions on platinum chains SN x and SNBry x the optical properties of 1 D inorganic metals CDW transport in transition metal chalcogenides and a lattice dynamical study of transition metal trichalcogenides **Electronic Properties of Inorganic**

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*Compounds* P. Monceau,2014-01-14 The close relationship between experimentalists and theorists whether solid state chemists or physicists has in the last few years inspired much research in the field of materials with quasi one dimensional structures Part II of this two volume set deals with the experimental treatment of pseudo one dimensional conductors Included are contributions on platinum chains SN x and SNBry x the optical properties of 1 D inorganic metals CDW transport in transition metal chalcogenides and a lattice dynamical study of transition metal trichalcogenides      Electronic

Properties of Inorganic Quasi-Dimensional Compounds Pierre Monceau,1985      *Low-Dimensional Electronic Properties of Molybdenum Bronzes and Oxides* C. Schlenker,2012-12-06 The history of low dimensional conductors goes back to the prediction more than forty years ago by Peierls of the instability of a one dimensional metallic chain leading to what is known now as the charge density wave state At the same time Frohlich suggested that an ideal conductivity could be associated to the sliding of this charge density wave Since then several classes of compounds including layered transition metal dichalcogenides quasi one dimensional organic conductors and transition metal tri and tetrachalcogenides have been extensively studied The molybdenum bronzes or oxides have been discovered or rediscovered as low dimensional conductors in this last decade A considerable amount of work has now been performed on this subject and it was time to collect some

review papers in a single book Although this book is focused on the molybdenum bronzes and oxides it has a far more general interest in the field of low dimensional conductors since several of the molybdenum compounds provide from our point of view model systems This is the case for the quasi one dimensional blue bronze especially due to the availability of good quality large single crystals This book is intended for scientists belonging to the fields of solid state physics and chemistry as well as materials science It should especially be useful to many graduate students involved in low dimensional oxides It has been written by recognized specialists of low dimensional systems

### **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

### **New Horizons in Low-Dimensional Electron Systems** H.

Aoki, M. Tsukada, M. Schlüter, F.A. Lévy, 2012-12-06 In Bird of Passage by Rudolf Peierls we find a paragraph in which he describes his Cambridge days in the 1930s On these relativistic field theory problems my main contacts were Dirac and the younger theoreticians These included in particular Nevill now Sir Nevill Mott perhaps the friendliest among many kind and friendly people we met then Professor Kamimura became associated with Sir Rudolf Peierls in the 1950s when he translated with his colleagues Peierls's 1955 textbook Quantum Theory of Solids into Japanese This edition to which Sir Rudolf himself contributed a preface benefitted early generations of Japanese solid state physicists Later in 1974-5 during a sabbatical year spent at the Cavendish Laboratory Professor Kamimura met and began a long association with Sir Nevill Mott In particular they developed ideas for disordered systems One of the outcomes is a paper coauthored by them on ESR induced variable range hopping in doped semiconductors A series of works on disordered systems together with those on two dimensional

systems have served as building blocks for Physics of Interacting Electrons in Disordered Systems in the International Series of Monographs on Physics coauthored by Aoki and published in 1989 by the Oxford University Press Soon after Professor Kamimura obtained a D Sc in 1959 for the work on the ligand field theory under the supervision of Masao Kotani his strong connections in the international physical community began when he worked at the Bell Telephone Laboratories in 1961 64

**Physics and Chemistry of Metal Cluster Compounds** L.J. de Jongh, 2013-03-09 On Friday February 20 1980 I had the pleasure to be present at the inaugural lecture of my colleague Jan Reedijk who had just been named at the Chair of Inorganic Chemistry of Leiden University According to tradition the ceremony took place in the impressive Hall of the old University Academy Building In the course of his lecture Jan mentioned a number of recent developments in chemistry which had struck him as particularly important or interesting Among those was the synthesis of large metal cluster compounds and to my luck he showed a slide of the molecular structure of  $\text{Pt}_9\text{C}_4$  To my luck since at traditional Leiden University it is quite unusual to show slides at such ceremonies This constituted my first acquaintance with this exciting new class of materials I became immediately fascinated by this molecule partly because of the esthetic beauty of its fivefold symmetry partly because as a physicist it struck me that it could be visualized as an embryonically small metal particle embedded in a shell of CO ligands

**Physics and Chemistry of Low-Dimensional Inorganic Conductors** C. Schlenker, Jean Dumas, Milton Greenblatt, Sander van Smaalen, 2012-12-06 The field of low dimensional conductors has been very active for more than twenty years It has grown continuously and both the inorganic and organic materials have remarkable properties such as charge and spin density waves and superconductivity The discovery of superconductivity at high temperature in copper based quasi two dimensional conducting oxides nearly ten years ago has further enlarged the field and stimulated new research on inorganic conductors It was obviously impossible to cover such a broad field in a ten day Institute and it seemed pertinent to concentrate on inorganic conductors excluding the high  $T_c$  superconducting oxides In this context it was highly desirable to include both physics and chemistry in the same Institute in order to tighten or in some cases to establish links between physicists and chemists This Advanced Study Institute is the continuation of a series of similar ones which have taken place every few years since 1974 73 participants coming from 13 countries have taken part in this School at the beautiful site of the Centre de Physique des Houches in the Mont Blanc mountain range The scientific programme included more than forty lectures and seminars two poster sessions and ten short talks Several discussion sessions were organized for the evenings one on New Materials one on New Topics and one on the special problem of the Fermi and Luttinger liquids The scientific activity was kept high from the beginning to the end of the Institute

*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  $\text{C}_{60}$  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

Magnetic Properties of Layered Transition Metal Compounds L.J. de Jongh, 2012-12-06 In the last two decades low dimensional low  $d$  physics has matured into a major branch of science Quite generally we may define a system with restricted dimensionality  $d$  as an object that is infinite only in one or two spatial directions  $d = 1$  and  $2$  Such a definition comprises isolated single chains or layers but also fibres and thin layers films of varying but finite thickness Clearly a multitude of physical phenomena notably in solid state physics fall into these categories As examples we may mention Magnetic chains or layers thin film technology Metallic films homogeneous or heterogeneous crystalline amorphous or microcrystalline etc  $1d$  or  $2d$  conductors and superconductors Intercalated systems  $2d$  electron gases electrons on helium semiconductor interfaces Surface layer problems  $2d$  melting of monolayers of noble gases on a substrate surface problems in general Superfluid films of He or He Polymer physics Organic and inorganic chain conductors superionic conductors  $1d$  or  $2d$  molecular crystals and liquid crystals  $1d$  or  $2d$  ferro and antiferro electrics

**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

Two-Dimensional Electron Systems E.Y. Andrei, 2012-12-06 Recent studies on two dimensional systems

have led to new insights into the fascinating interplay between physical properties and dimensionality. Many of these ideas have emerged from work on electrons bound to the surface of a weakly polarizable substrate such as liquid helium or solid hydrogen. The research on this subject continues to be at the forefront of modern condensed matter physics because of its fundamental simplicity as well as its connection to technologically useful devices. This book is the first comprehensive overview of experimental and theoretical research in this exciting field. It is intended to provide a coherent introduction for graduate students and non experts while at the same time serving as a reference source for active researchers in the field. The chapters are written by individuals who made significant contributions and cover a variety of specialized topics. These include the origin of the surface states, tunneling and magneto tunneling out of these states, the phase diagram, collective excitations, transport and magneto transport.

**S Sulfur-Nitrogen Compounds** Hans-Jürgen Fachmann, Alfons Kubny, Reimund Jotter, Joachim Wagner, 2013-11-11. The present volume is the first of a series describing acyclic sulfur nitrogen compounds with sulfur of oxidation number IV. The acyclic sw N compounds are arranged according to the coordination number of the sulfur. Neutral compounds are described before ions and complex compounds. The preceding series Sulfur Nitrogen Compounds Parts 2, 3 and 4 covers the cyclic sw N compounds. In this volume the first section deals with sulfur nitrogen compounds with 1 coordinate sulfur and begins with the sulfur nitride thiazyl radical SN. This transient molecule was observed in its electronic ground state and several electronically excited states. The descriptions of the sulfur nitride thiazyl ions SN and SW follow. The SN ion was studied in the gas phase as well as in the solid state where it forms salts. Thionitrosyl complexes containing the SN ligand as a terminal linear unit are described at the end of the first section. The second section concerns Sulfur nitrogen compounds with 2 coordinate sulfur and starts with the description of poly sulfur nitride SN<sub>x</sub>. The preparation, crystal structure and metallic and superconducting properties of SN<sub>x</sub> which were extensively studied fill a large part of the volume. Halogen modified poly sulfur nitride such as the widely studied SNBr<sub>x</sub> 0.4 and Na modified poly sulfur nitride are dealt with in the following chapters.



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## **Table of Contents Electronic Properties Of Inorganic Quasionedimensional Compounds**

1. Understanding the eBook Electronic Properties Of Inorganic Quasionedimensional Compounds
  - The Rise of Digital Reading Electronic Properties Of Inorganic Quasionedimensional Compounds
  - Advantages of eBooks Over Traditional Books
2. Identifying Electronic Properties Of Inorganic Quasionedimensional Compounds
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Electronic Properties Of Inorganic Quasionedimensional Compounds

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Electronic Properties Of Inorganic Quasionedimensional Compounds
  - Personalized Recommendations
  - Electronic Properties Of Inorganic Quasionedimensional Compounds User Reviews and Ratings
  - Electronic Properties Of Inorganic Quasionedimensional Compounds and Bestseller Lists
- 5. Accessing Electronic Properties Of Inorganic Quasionedimensional Compounds Free and Paid eBooks
  - Electronic Properties Of Inorganic Quasionedimensional Compounds Public Domain eBooks
  - Electronic Properties Of Inorganic Quasionedimensional Compounds eBook Subscription Services
  - Electronic Properties Of Inorganic Quasionedimensional Compounds Budget-Friendly Options
- 6. Navigating Electronic Properties Of Inorganic Quasionedimensional Compounds eBook Formats
  - ePub, PDF, MOBI, and More
  - Electronic Properties Of Inorganic Quasionedimensional Compounds Compatibility with Devices
  - Electronic Properties Of Inorganic Quasionedimensional Compounds Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electronic Properties Of Inorganic Quasionedimensional Compounds
  - Highlighting and Note-Taking Electronic Properties Of Inorganic Quasionedimensional Compounds
  - Interactive Elements Electronic Properties Of Inorganic Quasionedimensional Compounds
- 8. Staying Engaged with Electronic Properties Of Inorganic Quasionedimensional Compounds
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electronic Properties Of Inorganic Quasionedimensional Compounds
- 9. Balancing eBooks and Physical Books Electronic Properties Of Inorganic Quasionedimensional Compounds
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electronic Properties Of Inorganic Quasionedimensional Compounds
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Electronic Properties Of Inorganic Quasionedimensional Compounds
  - Setting Reading Goals Electronic Properties Of Inorganic Quasionedimensional Compounds

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electronic Properties Of Inorganic Quasionedimensional Compounds
  - Fact-Checking eBook Content of Electronic Properties Of Inorganic Quasionedimensional Compounds
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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