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Mobbauer Spectroscopy Of Sophisticated Oxides

**Miroslav Mashlan, Marcel
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Mössbauer Spectroscopy Of Sophisticated Oxides:

Mössbauer Spectroscopy of Sophisticated Oxides Attila Vértes, Zoltán Homonnay, 1997 The importance of oxides in the field of material science has shown a spectacular increase in the last two decades Some classes of these oxides such as inorganic glasses magnetic oxides high T_c superconductors and alkali metal ferrates attract even more attention due to their real or potential technical importance This monograph is an overview of some unique results achieved by means of Mössbauer spectroscopy of these oxides which the authors call the sophisticated oxides BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Mössbauer Spectroscopy Virender K. Sharma, Gostar Klingelhofer, Tetsuaki Nishida, 2013-08-13 Providing a modern update of the field Mössbauer Spectroscopy focuses on applications across a broad range of fields including analysis of inorganic elements nanoparticles metalloenzymes biomolecules including proteins glass coal and iron Ideal for a broad range of scientists this one stop reference presents advances gained in the field over past two decades including a detailed theoretical description of Mössbauer spectroscopy an extensive treatment of Mössbauer spectroscopy in applied areas and challenges and future opportunities for the further development of this technique Mössbauer Spectroscopy of Environmental Materials and Their Industrial Utilization Enver Murad, John Cashion, 2011-06-28 Mössbauer Spectroscopy of Environmental Materials and their Industrial Utilization provides a description of the properties of materials formed on the earth's surface their synthetic analogs where applicable and the products of their modifications in the course of natural processes such as weathering or in industrial processing as reflected in their Mössbauer spectra Particular emphasis is placed on the way in which these processes can be observed and elucidated through the use of Mössbauer spectroscopy The first chapter covers the basic theory of the Mössbauer effect and Chapters 2 and 3 deal with the nuts and bolts of experimental Mössbauer spectroscopy The principles of these first three chapters illustrated with many case studies are applied to different areas of interest in Chapters 4 through 12 The book is directed to a broad audience ranging from graduate students in environmental sciences or chemical engineering with little or no expertise in Mössbauer spectroscopy to researchers from other disciplines who are familiar with this technique but wish to learn more about possible applications to environmental materials and issues **Proceedings of the International Conference on Mössbauer Spectroscopy of Sophisticated Oxides**, 2000 Material Research in Atomic Scale by Mössbauer Spectroscopy Miroslav Mashlan, Marcel Miglierini, Peter Schaaf, 2003-03-31 Proceedings of the NATO Advanced Research Workshop held in Smolenice Slovak Republic 16 June 2002 Mössbauer Spectroscopy and Transition Metal Chemistry Philipp Gütlich, Eckhard Bill, Alfred X. Trautwein, 2010-12-25 concentrates on teaching techniques using as much theory as needed application of the techniques to many problems of materials characterization Mössbauer spectroscopy is a profound analytical method which has nevertheless continued to develop The authors now present a state of the art book which consists of two parts The first part details the fundamentals of Mössbauer spectroscopy and is based on a book published in

1978 in the Springer series Inorganic Chemistry Concepts by P Glich R Link and A X Trautwein The second part covers useful practical aspects of measurements and the application of the techniques to many problems of materials characterization The update includes the use of synchrotron radiation and many instructive and illustrative examples in fields such as solid state chemistry biology and physics materials and the geosciences as well as industrial applications Special chapters on magnetic relaxation phenomena S Morup and computation of hyperfine interaction parameters F Neese are also included The book concentrates on teaching the technique using theory as much as needed and as little as possible The reader will learn the fundamentals of the technique and how to apply it to many problems of materials characterization Transition metal chemistry studied on the basis of the most widely used Mossbauer isotopes will be in the foreground

Mössbauer Spectroscopy Yann Garcia, Junhu Wang, Tao Zhang, 2023-08-04 Mossbauer Spectroscopy Unique and comprehensive overview of versatile applications of Mossbauer spectroscopy in chemistry and material sciences Mossbauer Spectroscopy provides a comprehensive overview of relevant applications of this physical analysis method in chemistry and material sciences The book shows the versatility of Mossbauer spectroscopy in finding useful information on electronic structure structural insights and solid state effects of chemical systems A wide range of chemical applications and applied concepts are covered as well as numerous examples selected from recent literature To aid in reader comprehension and accessibility contents are well structured and divided in different sections covering energy catalysis coordination chemistry spin crossover sensing photomagnetism Edited by prominent scientists in the field and authored by a group of international experts Mossbauer Spectroscopy covers sample topics such as Li ion batteries catalysts fuel cells Fe based silicides and iron phosphates containing minerals Gold clusters and gold mixed valence complexes Molecule based magnets photoswitchable spin crossover coordination polymers and molecular sensors for meat freshness control With comprehensive coverage of the developments in the technique Mossbauer Spectroscopy is a beneficial resource for researchers professionals and academics in chemistry related fields such as material science sustainable environment and molecular electronics It can be used by newcomers as well as for educational purposes at the master and PhD levels Spectroscopic Properties of Inorganic and Organometallic Compounds G Davidson, 2007-10-31 Spectroscopic Properties of Inorganic and Organometallic Compounds provides a unique source of information on an important area of chemistry Divided into sections mainly according to the particular spectroscopic technique used coverage in each volume includes NMR with reference to stereochemistry dynamic systems paramagnetic complexes solid state NMR and Groups 13 18 nuclear quadrupole resonance spectroscopy vibrational spectroscopy of main group and transition element compounds and coordinated ligands and electron diffraction Reflecting the growing volume of published work in this field researchers will find this Specialist Periodical Report an invaluable source of information on current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading experts in their specialist fields this series is

designed to help the chemistry community keep current with the latest developments in their field Each volume in the series is published either annually or biennially and is a superb reference point for researchers www.rsc.org/spr **Handbook of Nuclear Chemistry** Attila Vértes,Sándor Nagy,Zoltán Klencsár,Rezso György Lovas,Frank Rösch,2010-12-10 This revised and extended 6 volume handbook set is the most comprehensive and voluminous reference work of its kind in the field of nuclear chemistry The Handbook set covers all of the chemical aspects of nuclear science starting from the physical basics and including such diverse areas as the chemistry of transactinides and exotic atoms as well as radioactive waste management and radiopharmaceutical chemistry relevant to nuclear medicine The nuclear methods of the investigation of chemical structure also receive ample space and attention The international team of authors consists of scores of world renowned experts nuclear chemists radiopharmaceutical chemists and physicists from Europe USA and Asia The Handbook set is an invaluable reference for nuclear scientists biologists chemists physicists physicians practicing nuclear medicine graduate students and teachers virtually all who are involved in the chemical and radiopharmaceutical aspects of nuclear science The Handbook set also provides further reading via the rich selection of references Mössbauer Spectroscopy N. Greenwood,2012-12-06 Rudolph Mossbauer discovered the phenomenon of recoil free nuclear resonance fluorescence in 1957 58 and the first indications of hyperfine interactions in a chemical compound were obtained by Kistner and Sunyar in 1960 From these beginnings the technique of Mossbauer spectroscopy rapidly emerged and the astonishing versatility of this new technique soon led to its extensive application to a wide variety of chemical and solid state problems This book reviews the results obtained by Mossbauer spectroscopy during the past ten years in the belief that this will provide a firm basis for the continued development and application of the technique to new problems in the future It has been our aim to write a unified and consistent treatment which firstly presents the basic principles underlying the phenomena involved then outlines the experimental techniques used and finally summarises the wealth of experimental and theoretical results which have been obtained We have tried to give some feeling for the physical basis of the Mossbauer effect without extensive use of mathematical formalism and some appreciation of the experimental methods employed without embarking on a detailed discussion of electronics and instrumentation However full references to the original literature are provided and particular points can readily be pursued in more detail if required Proceedings of the International Conference on Mössbauer Spectroscopy of Sophisticated Oxides Ernő Kuzmann,International Conference on Mössbauer Spectroscopy of Sophisticated Oxides,Eötvös Workshops in Science,International Conference on the Applications of the Mössbauer Effect,2000

Advanced Materials '93 Shigeyuki Somiya,2012-12-02 Ceramics Powders Corrosion and Advanced Processing covers the proceedings of the Third International Union of Materials Research Societies IUMRS International Conference on Advanced Materials ICAM held in Sunshine City Ikebukuro Tokyo Japan from August 31 to September 4 1993 The said conference discusses the procedures for advanced materials The book is divided into four parts Part 1 includes topics such as

preparation of powders from different compounds and substances and the application of different methods and techniques Part 2 talks about high temperature oxidations and corrosions degradation resistance of thermal barrier coatings the environmental effects on corrosion behavior of stainless steel effect of gas composition and pressure on high temperature corrosion and other related concepts Part 3 includes topics such as fatigue crack behavior the factors that lead to it fracture resistance and how it is increased and the application of ceramics to heat resistant engines and turbines Part 4 covers the advanced processing of ceramics and Part 5 deals with the fabrication of silicon based ceramics The text is highly recommended for chemists and engineers in the field of ceramics who would like to know more about the advances in its studies and research

Processing and Properties of Advanced Ceramics and Composites VI J. P. Singh, Narottam P. Bansal, Amar S. Bhalla, Morsi M. Mahmoud, Navin Jose Manjooran, Gurpreet Singh, Jacques Lamon, Sung R. Choi, Gary Pickrell, Kathy Lu, Geoff Brennecke, Takashi Goto, 2014-09-29 Contains 32 papers from the following seven 2013 Materials Science and Technology MS T 13 symposia Innovative Processing and Synthesis of Ceramics Glasses and Composites Advances in Ceramic Matrix Composites Advanced Materials for Harsh Environments Advances in Dielectric Materials and Electronic Devices Controlled Synthesis Processing and Applications of Structure and Functional Nanomaterials Rustum Roy Memorial Symposium Processing and Performance of Materials Using Microwaves Electric and Magnetic Fields Ultrasound Lasers and Mechanical Work Solution Based Processing for Ceramic Materials

Advanced Chemical Methods for Soil and Clay Minerals Research J.W. Stucki, W.L. Banwart, 2012-12-06 During the past few years there has been a marked increase in the use of advanced chemical methods in studies of soil and clay mineral systems but only a relatively small number of soil and clay scientists have become intimately associated and acquainted with these new techniques Perhaps the most important obstacles to technology transfer in this area are 1 many soil and clay chemists have had insufficient opportunities to explore in depth the working principles of more recent spectroscopic developments and therefore are unable to exploit the vast wealth of information that is available through the application of such advanced technology to soil chemical research and 2 the necessary equipment generally is unavailable unless collaborative projects are undertaken with chemists and physicists who already have the instruments The objective of the NATO Advanced Study Institute held at the University of Illinois from July 23 to August 4 1979 was to partially alleviate these obstacles This volume which is an extensively edited and reviewed version of the proceedings of that Advanced Study Institute is an essential aspect of that purpose Herein are summarized the theory and most current applications of six different spectroscopic methods to soil and or clay mineral systems The instrumental methods examined are Mossbauer neutron scattering x ray photoelectron XPS ESCA nuclear magnetic resonance NMR electron spin resonance ESR EPR and photoacoustic spectroscopy Contributing authors were also lecturers at the Advanced Study Institute and are each well known and respected authorities in their respective disciplines

Handbook of Advanced Industrial and Hazardous Wastes Management Lawrence K.

Wang, Mu-Hao S. Wang, Yung-Tse Hung, Nazih K. Shammash, Jiaping Paul Chen, 2017-10-30 This volume provides in depth coverage of environmental pollution sources waste characteristics control technologies management strategies facility innovations process alternatives costs case histories effluent standards and future trends in waste treatment processes It delineates methodologies technologies and the regional and global effects of important pollution control practices It focuses on specific industrial and manufacturing wastes and their remediation Topics include heavy metals electronics chemical and textile manufacturing

Mössbauer Spectroscopy Applied to Inorganic Chemistry G.J Long, F. Grandjean, 2013-11-11 In 1988 the Mossbauer effect community completed 30 years of continual contribution to the fields of nuclear physics solid state science and a variety of related disciplines To celebrate this anniversary Professor Gonser of the Universitat des Saarlandes has contributed a chapter to this volume on the history of the effect Although Mossbauer spectroscopy has reached its mature years the chapters in this volume illustrate that it is still a dynamic field of science with applications to topics ranging from permanent magnets to biological mineralization During the discussion of a possible chapter for this volume a potential author asked Do we really need another Mossbauer book The editors responded in the affirmative because they believe that a volume of this type offers several advantages First it provides the author with an opportunity to write a personal view of the subject either with or without extensive pedagogic content Second there is no artificially imposed restriction on length In response to the question How long should my chapter be we have responded that it should be as long as is necessary to clearly present explain and evaluate the topic In this type of book it is not necessary to condense the topic into two four or eight pages as is now so often a requirement for publication in the research literature

The Iron Oxides Rochelle M. Cornell, Udo Schwertmann, 2006-12-13 This book brings together in one compact volume all aspects of the available information about the iron oxides It presents a coherent up to date account of the properties reactions and mechanisms of formation of these compounds In addition there are chapters dealing with iron oxides in rocks and soils as biominerals and as corrosion products together with methods of synthesis and the numerous application of these compounds Their role in the environment is also discussed The authors are experts in the field of iron oxides and have worked on all the topics covered Much recent data from the authors own laboratories is included and opportunities for further research are indicated Special features are the electron micrographs and colour plates together with the many different spectra used to illustrate properties and aspects of behaviour Numerous tables and graphs enable trends and relationships to be seen at a glance The book concludes with an extensive bibliography This book should prove invaluable to industry and to all researchers who whatever their background and level of experience are interested in this rapidly expanding field It is an essential volume for any scientific library and is now in its second completely revised and extended edition

Structure And Properties Of Oxide Melts, The: Application Of Basic Science To Metallurgical Processing James M Toguri, Yoshio Waseda, 1998-08-22 This book is an extended introductory treatise on the atomic scale structure and physicochemical

properties of oxide melts mainly silicates from both the basic science and applied engineering points of view. It provides current experimental information on the structure of oxide melts and glasses as well as a convenient outline of their various physicochemical properties including the subject of how structural data can be correlated with their macroscopic properties. The book also includes a fundamental introduction to the beneficial utilization of waste oxides largely arising from metal production around the world. This will be very useful for people working in the fields of metallurgy and environmental science. With more than 300 references and numerous illustrations and tables, this book is a unique and valuable source of information and guidance for specialists and nonspecialists alike.

Perovskite Metal Oxides Srikanta Moharana, Tanmaya Badapanda, Santosh Kumar Satpathy, Ram Naresh Mahaling, Rajneesh Kumar, 2023-05-30. *Perovskite Metal Oxides: Synthesis, Properties, and Applications* provides an overview on the topic, including the synthesis of various types of perovskites, their properties, characterization, and application. The book reviews the applications of this category of materials for photovoltaics, electronics, biomedical, fuel cell, photocatalyst, sensor, energy storage, and catalysis, along with processing techniques of perovskite metal oxides with a focus on low cost and high efficiency methods, including various properties and probable applications in academia and industry. Other sections discuss strategies to improve the functionality of perovskite metal oxide materials, including chemical methods and controlling the size, shape, and structure of the materials. Finally, applications of perovskite metal oxides in energy conversion and storage, sensing, and electronics are covered. Provides an overview of perovskite metal oxides with an emphasis on synthesis, fabrication, and characterization methods. Discusses strategies to improve the functionality of perovskite metal oxide materials, including chemical methods and controlling the size, shape, and structure of the materials. Reviews applications of perovskite metal oxides in energy conversion and storage, sensing, and electronics.

Heme-Fe Proteins, 2000-10-11. *Advances in Inorganic Chemistry* presents timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry, ranging from bioinorganic to solid state. This acclaimed series features reviews written by experts in the area and is an indispensable reference to advanced researchers. Each volume of *Advances in Inorganic Chemistry* contains an index, and each chapter is fully referenced.

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