

Mossbauer Spectroscopy and Its Chemical Applications (Advances in Chemistry Series)

Stevens, John Gehret

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Mossbauer Spectroscopy And Its Chemical Applications

G Davidson, E A V Ebsworth



Mossbauer Spectroscopy And Its Chemical Applications:

Mössbauer Spectroscopy and Its Chemical Applications, 1981 **Mössbauer Spectroscopy and Its Chemical Applications** John Gehret Stevens, 1981 **Mossbauer Spectroscopy and Its Chemical Applications** John G. Stevens, Gopal K. Shenoy, 1981 *Applications of Mossbauer Spectroscopy* Richard L. Cohen, 2012-12-02 Applications of Mossbauer Spectroscopy Volume I is a collection of essays that discusses the research performed using Mossbauer spectroscopy. The book presents the effect of some stabilizers of polyethylene. It demonstrates the polymerization processes and structure of catalytically active centers. The text also describes the chemical processes in butyl rubber vulcanization. It discusses the experimental studies of iron transport proteins and the thermal decomposition of solids. The section that follows describes the paramagnetic hyperfine structure. The book will provide valuable insights for scientists, chemists, students, and researchers in the field of organic chemistry. **Mössbauer Spectroscopy Applied to Inorganic Chemistry** G.J Long, 2013-11-11 When presented with a new compound or material, the inorganic chemist will usually have several questions in mind about its composition and structure. Although a simple elemental analysis may answer many questions about its composition, the chemist will still have questions about its structure. If the material contains a metal atom, he will often want to know its oxidation state, coordination number, and geometry. Further, at an increasingly frequent rate, the chemist may need details of the spin state, magnetic, and perhaps dynamic properties of the material. If the investigator is fortunate, the material or compound may contain an element such as iron, tin, antimony, iodine, gold, or one of several of the rare earth metals, which are amenable to study by the Mossbauer effect. Often, the Mossbauer effect can, sometimes with quite simple experiments, provide the answers to all of these questions. The goal of this book is to illustrate the effectiveness of the Mossbauer effect in providing the answers to the many questions that arise in characterizing new materials and indeed in studying known materials in more detail. Several chapters introduce the effect to the novice and provide details about the various hyperfine interactions that are the bread and butter of the Mossbauer spectroscopist. Three chapters deal specifically with the experimental aspects of the technique and the increasing importance of sophisticated computer analysis of the resulting data. *Mössbauer Spectroscopy* Yutaka Yoshida, Guido Langouche, 2012-11-08 Tutorials on Mossbauer Spectroscopy Since the discovery of the Mossbauer Effect, many excellent books have been published for researchers and for doctoral and master level students. However, there appears to be no textbook available for final year bachelor students nor for people working in industry who have received only basic courses in classical mechanics, electromagnetism, quantum mechanics, chemistry, and materials science. The challenge of this book is to give an introduction to Mossbauer Spectroscopy for this level. The ultimate goal of this book is to give this audience not only a scientific introduction to the technique but also to demonstrate in an attractive way the power of Mossbauer Spectroscopy in many fields of science in order to create interest among the readers in joining the community of Mossbauer spectroscopists. This is particularly important at times where in many Mossbauer

laboratories succession is at stake This book will be used as a textbook for the tutorial sessions organized at the occasion of the 2011 International Conference on the Application of Mossbauer Spectroscopy ICAME2011 in Tokyo Mössbauer Spectroscopy Virender K. Sharma, Gostar Klingelhofer, Tetsuaki Nishida, 2013-08-13 Providing a modern update of the field Mossbauer 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 Mossbauer spectroscopy an extensive treatment of Mossbauer spectroscopy in applied areas and challenges and future opportunities for the further development of this technique **Industrial Applications of the Mössbauer Effect** G.J Long, 2012-12-06 As is often the case the preface is the last task to be finished during the preparation of a large volume such as you are now holding The first task obtaining approval for a symposium on the industrial applications now seems a long time ago The idea originated with John Stevens probably in 1982 from his observation of papers dealing with industrial applications of the Mossbauer effect appearing in the Mossbauer Effect Reference and Data Journal His initial suggestion for a symposium entitled Industrial Applications of the Mossbauer Effect to be held at a national meeting of the American Chemical Society eventually led to the symposium at the International Chemical Congress of Pacific Basin Societies which met in Honolulu Hawaii in December 1984 This volume is the result of the symposium at the above mentioned Congress but is not actually the proceedings of the symposium because this volume does not contain all of the over one hundred Mossbauer effect papers that were presented at the symposium Rather it contains a selection of papers that the organizing committee for the symposium deemed most appropriate for a volume devoted to industrial applications of the Mossbauer effect The final volume also contains six chapters that were not a part of the symposium but which are closely related to the topic There is another difference from many proceedings **Mössbauer Spectroscopy of Environmental Materials and Their Industrial Utilization** Enver Murad, John Cashion, 2011-06-28 Mossbauer 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 Mossbauer spectra Particular emphasis is placed on the way in which these processes can be observed and elucidated through the use of Mossbauer spectroscopy The first chapter covers the basic theory of the Mossbauer effect and Chapters 2 and 3 deal with the nuts and bolts of experimental Mossbauer 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 Mossbauer 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

Mössbauer Spectroscopy Yann Garcia, Junhu Wang, Tao Zhang, 2023-09-25 *Mössbauer Spectroscopy* Unique and comprehensive overview of versatile applications of Mössbauer spectroscopy in chemistry and material sciences *Mössbauer Spectroscopy* provides a comprehensive overview of relevant applications of this physical analysis method in chemistry and material sciences The book shows the versatility of Mössbauer 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 *Mössbauer 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 *Mössbauer 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

Mössbauer Spectroscopy and Transition Metal Chemistry P. Gülich, R. Link, A. Trautwein, 2013-11-11 Two decades have passed since the original discovery of recoilless nuclear gamma resonance by Rudolf Mossbauer the spectroscopic method based on this resonance effect referred to as Mossbauer spectroscopy has developed into a powerful tool in solid state research The users are chemists physicists biologists geologists and scientists from other disciplines and the spectrum of problems amenable to this method has become extraordinarily broad In the present volume we have confined ourselves to applications of Mossbauer spectroscopy to the area of transition elements We hope that the book will be useful not only to non Mossbauer specialists with problem Oriented activities in the chemistry and physics of transition elements but also to those actively working in the field of Mossbauer spectroscopy on systems compounds as well as alloys of transition elements The first five chapters are directed to introducing the reader who is not familiar with the technique to the principles of the recoilless nuclear resonance effect the hyperfine interactions between nuclei and electronic properties such as electric and magnetic fields some essential aspects about measurements and the evaluation of Mossbauer spectra Chapter 6 deals with the interpretation of Mossbauer parameters of iron compounds Here we have placed emphasis on the information about the electronic structure in correlation with quantum chemical methods because of its importance for chemical bonding and magnetic properties

Mössbauer Spectroscopy N. 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 with out 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 Applications of Mössbauer Spectroscopy Richard L. Cohen, 2013-10-22 Applications of Mossbauer Spectroscopy Volume II is a collection of essays that discusses the range of problems being studied using the Mossbauer spectroscopy investigatory technique The book presents the role of this technique in oxygen transport and storage material It demonstrates the use of Mossbauer spectroscopy in the analysis of phases and states in metallic system The text also describes the experimental studies of superparamagnetic relaxation It discusses the magnetic fluctuations in diamagnetically substituted iron oxides and the magnetic field dependence of Mossbauer spectra of small particles The section that follows describes the hyperfine field of surface atoms The book will provide valuable insights for scientists chemists students and researchers in the field of metallurgy

Applications of Mössbauer Spectroscopy to Environmental and Geochemical Studies Takeshi

Tominaga, Yoshitaka Minai, 1984 *Spectroscopic Properties of Inorganic and Organometallic Compounds* G Davidson, E A V Ebsworth, 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 Mössbauer Spectroscopy in Materials Science Marcel Miglierini, Dimitris Petridis, 2013-11-11 Material science is one of the most evolving fields of human activities Invention and consequent introduction of new materials for practical and or technological purposes requires as

complete knowledge of the physical chemical and structural properties as possible to ensure proper and optimal usage of their new features. In order to understand the macroscopic behaviour one has to search for their origin on a microscopic level. A good deal of microscopic information can be obtained through hyperfine interactions. Mossbauer spectroscopy offers a unique possibility for hyperfine interaction studies via probing the nearest order of resonant atoms. Materials which contain the respective isotope as one of the constituent elements e.g. iron, tin, but also those which even do not contain them can be investigated. In the latter case the probe atoms are incorporated into the material of interest in minor quantities ca 0.1 at % to act as probes on a nuclear level. This Workshop has covered the most evolving topics in the field of Mossbauer spectroscopy applied to materials science. During four working days 50 participants from 19 countries discussed the following areas: Chemistry, Mineralogy and Metallurgy, Artificially Structured Materials, Nanosized Materials and Quasicrystals and Experimental Techniques and Data Processing. A total of 42 contributions, 30 keynote talks reviewed the current state of art of the method, its applications for technical purposes as well as trends and perspectives. A total of 39 papers are included in the present volume.

Applications in Chemistry **Principles of Mössbauer Spectroscopy** T. C. Gibb, 2013-11-21. The emergence of Mössbauer spectroscopy as an important experimental technique for the study of solids has resulted in a wide range of applications in chemistry, physics, metallurgy and biophysics. This book is intended to summarize the elementary principles of the technique at a level appropriate to the advanced student or experienced chemist requiring a moderately comprehensive but basically non-mathematical introduction. Thus the major part of the book is concerned with the practical applications of Mossbauer spectroscopy using carefully selected examples to illustrate the concepts. The references cited and the bibliography are intended to provide a bridge to the main literature for those who subsequently require a deeper knowledge. The text is complementary to the longer research monograph *Mossbauer Spectroscopy* which was written a few years ago in co-authorship with Professor N. N. Greenwood and to whom I am deeply indebted for reading the preliminary draft of the present volume. I also wish to thank my many colleagues over the past ten years and in particular Dr R. Greatrex for the many stimulating discussions which we have had together. However my greatest debt is to my wife who not only had to tolerate my eccentricities during the gestation period but being a chemist herself was also able to provide much useful criticism of the penultimate draft.

Experimental Quantum Chemistry Peter Hedvig, 2012-12-02. *Experimental Quantum Chemistry* is a comprehensive account of experimental quantum chemistry and covers topics ranging from basic quantum theory to atoms and ions, photons, electrons and positrons. Nuclei, molecules and free radicals are also discussed. This volume is comprised of eight chapters and begins with an overview of the basic experiments and ideas leading to the development of quantum theory with special emphasis on the problems of chemistry. The main properties of electromagnetic radiation are then considered along with the most important relations of electrons and positrons in chemistry, the quantum theory of isolated atoms and ions, the structure of nuclei and the main applications to organic chemistry and the chemical structure and

reactivity of molecules The theoretical and experimental aspects of interpreting free radical structures on the basis of the molecular orbital and valence bond theories are also explored The final chapter is devoted to the chemistry of the organic solid state paying particular attention to the structure and molecular mobilities of organic solids collective crystal states excitons phonons and polaritons energy transfer processes and reactions in the solid state This book should be of interest to physicists and organic chemists Spectroscopic Properties of Inorganic and Organometallic Compounds N N

Greenwood,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 Atomic and Nuclear Analytical Methods Hem Raj Verma,2007-04-26 This book compares and offers a comprehensive overview of nine analytical techniques important in material science and many other branches of science All these methods are already well adapted to applications in diverse fields such as medical environmental studies archaeology and materials science This clearly presented reference describes and compares the principles of the methods and the various source and detector types

Mossbauer Spectroscopy And Its Chemical Applications: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. Mossbauer Spectroscopy And Its Chemical Applications : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mossbauer Spectroscopy And Its Chemical Applications : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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