

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

Stevens, John Gehret

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# Mossbauer Spectroscopy And Its Chemical Applications

**Marcel Miglierini, Dimitris Petridis**



## **Mossbauer Spectroscopy And Its Chemical Applications:**

Mössbauer Spectroscopy and Its Chemical Applications, 1981 Mössbauer Spectroscopy and Its Chemical Applications John Gehret Stevens, 1981 **Mössbauer Spectroscopy and Its Chemical Applications** John G. Stevens, Gopal K. Shenoy, 1981 **Chemical Mössbauer Spectroscopy** R.H. Herber, 2012-12-06 The past twenty five years roughly the period from 1960 to 1985 have been by all measures among the most exciting and challenging times of our science The increasing sensitivity of chemical instrumentation the introduction of the routine use of computers for data reduction and of microprocessors for instrumental control the wide spread utilization of lasers and the disappearance of traditional disciplinary boundaries between scientific fields are but a few of the examples one could cite to support the introductory contention Almost all of these developments have had their impact on the development of Mossbauer Effect Spectroscopy into a technique par excellence for the elucidation of problems in all areas of chemistry and its associated sister sciences Indeed because this spectroscopy is based on fundamental phenomena in nuclear physics is described in terms of the theory of the solid state and structural chemistry is useful in the understanding of chemical reactivity and biological phenomena and can serve to supplement information developed by many other experimental techniques it has provided an unparalleled opportunity for the exchange of ideas among practitioners of a very wide variety of subfields of the physical and biological sciences The present collection of contributions is the direct result of such an interaction Mössbauer Spectroscopy and Transition Metal Chemistry P. Gütlich, 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 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 *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 and 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** Yann Garcia, Junhu Wang, Tao Zhang, 2023-09-25 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

## **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 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.

### *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** 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 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.

Chemical Applications of Mössbauer Spectroscopy Vitalii Iosifovich Gol'danskii, Rolfe H. Herber, 1968

**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.

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 a 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.

*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](http://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. Mössbauer 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 Mössbauer 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 Takeshi Tominaga, Yoshitaka Minai, 1984. **Modern Mössbauer Spectroscopy** Yutaka Yoshida, Guido Langouche, 2021-01-19. This book presents an overview of the latest Mössbauer spectroscopy research. It sheds light on various cutting edge research subjects: i) nuclear resonance scattering experiments implemented at synchrotron radiation facilities, e.g. ESRF, DESY and Spring 8; ii) multidisciplinary materials research related to chemistry, biology, geoscience, molecular magnetism of metal complexes, batteries and magnetism; iii) novel imaging techniques based on probing diffusion in solids using Mössbauer spectroscopy. The first three chapters introduce recent research on modern Mössbauer spectroscopy, including nuclear resonant scattering experiments and development of related techniques at

synchrotron accelerator facilities Chapters 4 and 5 then demonstrate the applications of such pioneering techniques to chemistry biology and geoscience Chapters 6 and 7 describe the applications to new functional materials i e metal complexes and Li and Na ion batteries while the final two chapters are devoted to two important measuring techniques Mossbauer spectroscopy under external magnetic fields and microscopic Mossbauer techniques on diffusion in solids which are expected to play an essential role in the investigation and characterization of magnetic structures and microstructures in materials The cutting edge content provides readers with quick updates on the latest research topics in the field while the tutorial style descriptions allow readers unfamiliar with Mossbauer spectroscopy to learn and implement the techniques As such the book is especially useful for advanced undergraduate and early graduate students who have recently been assigned to a laboratory

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