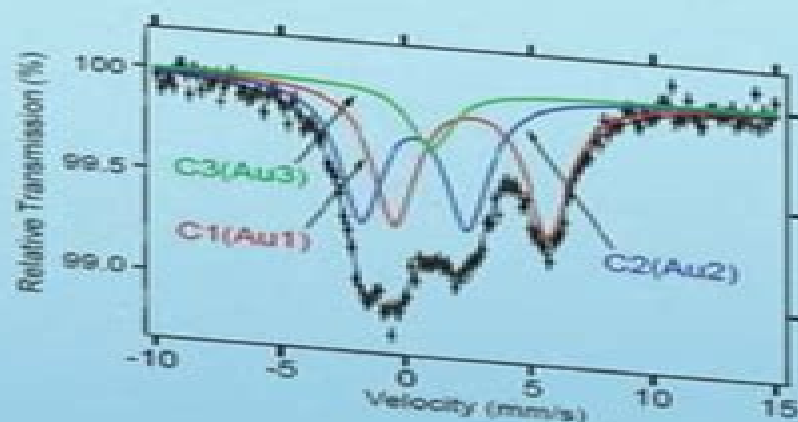
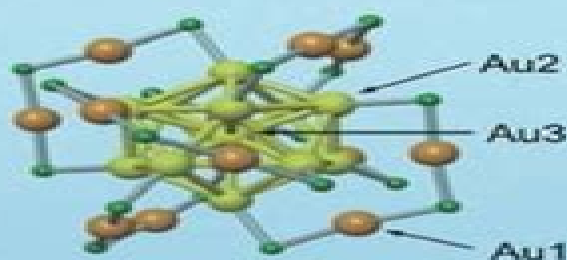


Edited by
Yann Garcia, Junhu Wang, and Tao Zhang

Mössbauer Spectroscopy

Applications in Chemistry and
Materials Science



Mssbauer Spectroscopy

Yutaka Yoshida, Guido Langouche



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Mössbauer Spectroscopy Yann Garcia, Junhu Wang, Tao Zhang, 2023-08-04 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 Yutaka Yoshida, Guido Langouche, 2012-11-08 Tutorials on Mössbauer Spectroscopy Since the discovery of the Mössbauer 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 Mössbauer 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 Mössbauer Spectroscopy in many fields of science in order to create interest among the readers in joining the community of Mössbauer spectroscopists This is particularly important at times where in many Mössbauer 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 Mössbauer Spectroscopy ICAME2011 in Tokyo

Mössbauer Spectroscopy and its Applications T. E. Cranshaw, B. W. Dale, G. O. Longworth, C. E. Johnson, 1986-01-23 The technique of Mössbauer spectroscopy is important in the study of the bonding structural magnetic nuclear and dynamical properties of various systems Although used mainly by physicists and chemists the method has also become a common means of investigation for materials scientists geologists biologists surface scientists and others This book describes the principles of the technique and discusses its applications in various fields It will be invaluable for anyone using the technique of Mössbauer spectroscopy for the first time

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 Mossbauer Spectroscopy A. G. Maddock, 1997-01-01 Mossbauer spectroscopy has proved itself a versatile technique finding applications in diverse areas of science and industry Starting from physics and chemistry it spread into biochemistry mineralogy biochemistry corrosion science geochemistry and archaeology with applications in industrial and scientific research The author aims to help advanced university students professionals and research workers who ask the question what's in it for us After a concise account of experimental techniques he emphasizes those applications in which there are few if any alternative ways of obtaining the same information about electron fields and the nuclei He explains areas of industrial interest including the important applications related to tin and iron on which there is much activity in research and development and interprets the extension of Mossbauer techniques to main group transitional and other suitable elements Attention is paid to factors which may lead to misinterpretation of spectra and another chapter covers the complexities of interpreting emission spectra Discusses the appearance of Mossbauer spectroscopy in biochemistry mineralogy biochemistry corrosion science geochemistry and archaeology with applications in industrial and scientific research Emphasizes the applications in which there are few if any alternative ways of obtaining the same information about electron fields and the nuclei Attention is paid to the complexities of interpreting emission spectra and the factors which may lead to misinterpretation of spectra

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

Modern Mössbauer Spectroscopy Yutaka Yoshida, Guido Langouche, 2021-01-19 This book presents an overview of the latest Mossbauer 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 Mossbauer spectroscopy The first three chapters introduce recent research on modern Mossbauer 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

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 Perspectives in Mössbauer Spectroscopy S.

Cohen,2012-12-06 This book is for the most part made up of the invited papers presented at the International Conference on Applications of the Mössbauer effect held at Ayaloth Hashahar Israel in August 1972 The purpose of the conference was to review perspectives in Mössbauer spectroscopy from the point of view of applications in various fields of science mainly physics chemistry and biology It was hoped that the bringing together of scientists who work in different disciplines but use a common tool would encourage interdisciplinary research and widen the horizon of the individual researcher Both these features have been an important and unique characteristic of Mössbauer research in the past decade Accordingly the main papers were presented in the following areas magnetic properties of solids applications to inorganic chemistry biochemical studies amorphous systems metal alloys advances in high resolution studies and the new techniques for studying recoil free spectra from isolated atoms in inert materials A special panel discussion was devoted to the subject of phase transitions Recent years have witnessed a rapid growth in the use of X ray photoelectron spectroscopy for the study of the physics and chemistry of solids A report on this area of research and its relation to Mössbauer studies has been included

Applications of Mössbauer Spectroscopy Richard L. Cohen,2013-10-22 Applications of Mössbauer Spectroscopy Volume II is a collection of essays that discusses the range of problems being studied using the Mössbauer spectroscopy investigatory technique The book presents the role of this technique in oxygen transport and storage material It demonstrates the use of Mössbauer 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 Mössbauer 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

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