# MÖSSBAUER EFFECT DATA INDEX Covering the 1969 Literature

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# **Mossbauer Effect Data Index Covering The 1976 Literature**

P. Gütlich, R. Link, A. Trautwein

## **Mossbauer Effect Data Index Covering The 1976 Literature:**

Mössbauer Effect Data Index John G. Stevens, Virginia E. Stevens, 2013-11-27 One of the most important and unfortunately scientific information of interest in our field least advertised applications of nuclear gamma from all over the world in many languages and resonance spectroscopy is the organized indexing documented evaluated and presented this in of scientific information While there are only formation in a comprehensive format two active workers in this field the rest of us It tak e this opportunity to congratulate the are the beneficiaries of their unique effort which Stevenses for their success and to express my keeps us well informed in our own fields of in gratitude to them for their service to all of us terest This tenth volume of MEDI is a land 1 wish them very good luck mark in an experiment in the distribution of scientific information initiated by Art Muir R L M SSBAUER and his group Sin ce 1969 J ohn and Virginia Munich Stevens have explored new ways of gathering December 1977 V Acknowledgments This year our operation was located at the Uni proofread the data and references and in so versity of Nijmegen The Netherlands where we doing demonstrated a special kind of patience were working during a year lea ve of absence from and attention to detail Other longtime assistants UNC A In Nijmegen Dr Jan Trooster was our are Professor G N Belozerskii of USSR and Dr Standard Reference Data Publications, 1964-1984 Joan C. Sauerwein, Geraldine R. Dalton, 1985 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 guestions about its structure and ifthe 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 ele ment 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 char acterizing 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 **Standard Reference Data Publications, 1964-1980** Gertrude B. Sherwood,1981 Mössbauer Effect Data data **Index** John Gehret Stevens, Virginia E. Stevens, 1975 **Handbook of Spectroscopy** J. W. Robinson, 2018-02-06 The principle objective of this handbook is to provide a readily accessible source of information on the major fields of spectroscopy Specifically these fields are NMR IR Raman UV absorption and fluorescence ESCA X Ray absorption diffraction

fluorescence mass spectrometry atomic absorption flame photometry emission spectrography and flame spectroscopy It will be of particular use to analytical organic inorganic chemists or spectroscopists wishing to identify materials or compounds The book will indicate to them which techniques may provide useful information and what kind of information will and will not be provided In short it will be a companion to those spectroscopists who have need to broaden their horizons into the major fields discussed Spectroscopic Properties of Inorganic and Organometallic Compounds D M Adams, 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 **Spectroscopic Properties of** Inorganic and Organometallic Compounds Volume 12 David Michael Adams, Evelyn Algerman Valentine Ebsworth, 1980 Annotation 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 **Applications of Analytical Techniques to** the Characterization of Materials D.L. Perry, 1992-03-31 Over the last several years the field of materials science has witnessed an explosion of new advanced materials They encompass many uses and include superconductors alloys glasses and catalysts Not only are there guite a number of new enhies into these generic classes of materials but the materials themselves represent a wide array of physical forms as well Bulk materials for example are being synthesized and applica

tions found for them while still other materials are being synthesized as thin films for yet still more new and in some cases as yet unknown applications The field continues to expand with thankfully no end in sight as to the number of new possibilities As work progresses in this area there is an ever increasing demand for knowing not only what material is formed as an end product but also details of the route by which it is made The knowledge of reaction mechanisms in their synthesis many times allows a researcher to tailor a preparative scheme to either arrive at the final product in a purer state or with a better yield Also a good fundamental experimental knowledge of impuri ties present in the final material helps the investigator get more Spectroscopic Properties of Inorganic and Organometallic Compounds 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 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 special ists 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 hyperfme interactions between nuclei and electronic properties such as electric and magnetic fields some essential aspects about measurements and the evaluation of Moss bauer 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 Effect Data Index John Gehret Stevens,1976 Spectroscopy in Heterogeneous Catalysis W Delgass,2012-12-02 Spectroscopy in Heterogeneous Catalysis deals with the applications of spectroscopy in heterogeneous catalysis The concepts and capabilities of a particular technique experimental procedures and examples of all proven or potentially important applications are discussed The use of spectroscopic measurements in guiding empirical approaches to applied problems and to fundamental studies of the chemical identity of catalytic surfaces is also described This book is comprised of eight chapters and begins with a discussion on the scope of spectroscopy in catalysis and applications of spectroscopy to zeolite catalysts The following chapters focus on infrared spectroscopy with emphasis on the theory and interpretation of infrared spectra Raman spectroscopy and the theory of the Raman effect diffuse reflectance and photoacoustic spectroscopies and M ssbauer spectroscopy Electron spin resonance spectroscopy and nuclear magnetic resonance spectroscopy are also considered The final chapter is devoted to X ray photoelectron spectroscopy XPS and its application to core electrons along with the experimental equipment and procedures used The applications of XPS to studies of surface behavior and catalyst composition and chemistry are outlined This monograph will be a useful resource for physicists researchers and potential researchers in heterogeneous catalysis

Mössbauer Effect Data Index ,1966

Mössbauer Effect Data Index J.G. Stevens,1966 New Technical Books New York Public Library,1979 National Standard Reference Data System Publication List, 1964-1979,1980 Mössbauer Effect Reference and Data Journal,1989 Data Bases and Data Structures in Physics,1983 Mössbauer Effect Data Index John Gehret Stevens,1975-03-01

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