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TECHNICAL REPORTS SERIES No. 50

**Applications
of the Mössbauer Effect
in Chemistry
and Solid-State Physics**

INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1968

Apps Of The Mossbauer Effect In Chemistr

Marcel A. Müller



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Applications of the Mössbauer Effect: Chemistry I. S. Lyubutin, 1985 **Applications of the Mössbauer Effect** Yu M. Kagan, I. S. Lyubutin, 1985 Recent Applications of the Mössbauer Effect Dr. Monica Sorescu, 2020-02-14 Recent Applications of the Mossbauer Effect By Dr Monica Sorescu Dr Monica Sorescu has over 30 years of experience in the field of Mossbauer spectroscopy applications which she obtained in Romania Germany and the United States In her laboratory at Duquesne University she conducted leading research on various classes of materials such as amorphous metals mixed oxide nanoparticles graphene and spring magnets Recent Applications of the Mossbauer Effect brings recent applications of the Mossbauer effect to the attention of the general public *Applications of the Mössbauer Effect: Applications in other fields* Yu M. Kagan, I. S. Lyubutin, 1985 *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 orginated 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 pre sented at the symposium Rather it contains a selection of papers that the or ganizing 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 Applications of the Mössbauer Effect I. S. Lyubutin, 1985 Industrial Applications of the Mössbauer Effect Desmond C. Cook, Gilbert R. Hoy, 2012-12-06 ISIAME 2000 was organized by the Condensed Matter and Materials Physics Research Group at Old Dominion University Norfolk Virginia It brought together an international group of research scientists and engineers from academia and industry to present details of the most recent investigations on industrially related topics and projects using Mossbauer Spectroscopy as a primary analytical technique These proceedings inciude the papers presented under the broad topics of Chemistry Surfaces Materials Processing Industrial Processing and Magnetic and Electronic Materials Specific research areas drawing much interest include corrosion catalysis mechanical alloying petrochemical steel and mineralogical processing nano phase materials and environmental and pollution monitoring The book is of particular interest to university researchers and a very broad range of industrial R D groups who desire to broaden their knowledge of the latest applications and methods of highly resolved spectroscopic analysis of their products

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 Mössbauer effect. Often the Mössbauer 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 Mössbauer 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 Mössbauer 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 Effect Reference and Data Journal*, 1990. Progress in Inorganic Chemistry, Volume 8 F. Albert Cotton, 2009-09-17 This comprehensive series of volumes on inorganic chemistry provides inorganic chemists with a forum for critical authoritative evaluations of advances in every area of the discipline. Every volume reports recent progress with a significant up to date selection of papers by internationally recognized researchers complemented by detailed discussions and complete documentation. Each volume features a complete subject index and the series includes a cumulative index as well.

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