



J.-C.G. Bünzli and V.K. Pecharsky
Editors



HANDBOOK ON THE
PHYSICS AND CHEMISTRY OF
RARE EARTHS



Volume 45

North-Holland

Including Actinides



Handbook On The Physics And Chemistry Of Rare Earths

Volume 45

Léo Pomar



Handbook On The Physics And Chemistry Of Rare Earths Volume 45:

Lanthanides And Actinides, The: Synthesis, Reactivity, Properties And Applications Stephen T Liddle, David P Mills, Louise Sarah Natrajan, 2021-12-30 The Lanthanides and Actinides Synthesis Reactivity Properties and Applications constitutes an introduction to and comprehensive coverage of f block chemistry encompassing the following areas periodicity natural occurrence and extraction separations electronic structure coordination chemistry organometallic chemistry small molecule activation catalysis organic synthesis applications magnetism spectroscopy computation materials photonics solar cell technology biological imaging and technological applications Under these subject areas the book provides a broad but deep coverage providing basic overviews as well as detailed chapters on specific areas This book targeted at academics postgraduates and advanced undergraduates will serve as an ideal introductory text and key reference work to the

Lanthanides and Actinides Rare Earths Paul Caro, 1998 **Handbook of Optical Properties** Rolf E. Hummel, Karl H. Guenther, 1995-02-24 Thin Films for Optical Coating emphasizes the applications of thin films deposition of thin films and thin film characterization Unlike monographs on this subject this book presents the views of many expert authors Individual chapters span a wide arc of topics within this field of study The book offers an introduction to usual and unusual applications of optical thin films treating in a more qualitative way general topics such as anticounterfeiting coatings decorative coatings light switches contrast enhancement coatings multiplexers optical memories and more Contributors review thin film media for optical data storage UV broadband and narrow band filters and optically active thin film coatings Ion beam sputtering and magnetron sputtering deposition methods are described in detail Characterization techniques are provided including Raman spectroscopy and absorption measurements The book also offers theories on light scattering of thin dielectric films and the electromagnetic properties of nanocermet thin films This reference incorporates recent research by the individual authors with their views of current developments in their respective fields Of particular interest to the reader will be an assessment of the historical developments of thin film physics written by one of the fathers of thin film technology Professor M Auw rter

The Heaviest Metals William J. Evans, Timothy P. Hanusa, 2019-01-08 An authoritative survey of the science and advanced technological uses of the actinide and transactinide metals The Heaviest Metals offers an essential resource that covers the fundamentals of the chemical and physical properties of the heaviest metals as well as the most recent advances in their science and technology The authors noted experts in the field offer an authoritative review of the actinide and transactinide elements i e the elements from actinium to lawrencium as well as rutherfordium through oganesson the current end of the periodic table element 118 The text explores the history of the metals their occurrence and issues of production and covers a broad range of chemical subjects including environmental concerns and remediation approaches The authors also offer information on the most recent and emerging applications of the metals such as in superconducting materials catalysis and research into medical diagnostics This important resource Provides an overview of the science and

advanced technological uses of the actinide and transactinide metals Describes the basic chemical and physical properties of the heaviest metals and discusses the challenges and opportunities for their technological applications Contains accessible information on the fundamental features of the heaviest metals special requirements for their experimental study and the critical role of computational characterization of their compounds Highlights the most current and emerging applications in areas such as superconducting materials catalysis nuclear forensics and medicine Presents vital contemporary issues of the heaviest metals Written for graduate students and researchers working with the actinide and transactinide elements industrial and academic inorganic and nuclear chemists and engineers The Heaviest Metals is a comprehensive volume that explores the fundamental chemistry and properties of the heaviest metals and the challenges and opportunities associated with their present and emerging technological uses

Shock Waves in Condensed Matter Y. M. Gupta, 2012-12-06 The Fourth American Physical Society Topical Conference on Shock Waves in Condensed Matter was held in Spokane Washington July 22 25 1985 Two hundred and fifty scientists and engineers representing thirteen countries registered at the conference The countries represented included the United States of America Australia Canada The People s Republic of China France India Israel Japan Republic of China Taiwan United Kingdom U S S R Switzerland and West Germany One hundred and sixty two technical papers covering recent developments in shock wave and high pressure physics were presented All of the abstracts have been published in the September 1985 issue of the Bulletin of the American Physical Society The topical conferences held every two years since 1979 have become the principal forum for shock wave studies in condensed materials Both formal and informal technical discussions regarding recent developments conveyed a sense of excitement Consistent with the past conferences the purpose of this conference was to bring together scientists and engineers studying the response of condensed matter to dynamic high pressures and temperatures Papers covering experimental theoretical and numerical studies of condensed matter properties were presented A noteworthy feature of this conference was the participation by several leading scientists engaged in static high pressure research Donald Curran served as the Master of Ceremonies at the conference banquet which was attended by two hundred and seventy five conference participants and guests including Dr Samuel Smith the new President of Washington State University Dr

The Chemistry of the Actinide and Transactinide Elements (Set Vol.1-6) L.R. Morss, Norman M. Edelstein, Jean Fuger, 2010-10-21 The fourth edition of The Chemistry of the Actinide and Transactinide Elements comprises all chapters in volumes 1 through 5 of the third edition published in 2006 plus a new volume 6 To remain consistent with the plan of the first edition to provide a comprehensive and uniform treatment of the chemistry of the actinide and transactinide elements for both the nuclear technologist and the inorganic and physical chemist and to be consistent with the maturity of the field the fourth edition is organized in three parts The first group of chapters follows the format of the first and second editions with chapters on individual elements or groups of elements that describe and interpret their chemical properties A chapter on the chemical properties of the

transactinide elements follows The second group chapters 15-26 summarizes and correlates physical and chemical properties that are in general unique to the actinide elements because most of these elements contain partially filled shells of 5f electrons whether present as isolated atoms or ions as metals as compounds or as ions in solution The third group chapters 27-39 focuses on specialized topics that encompass contemporary fields related to actinides in the environment in the human body and in storage or wastes Two appendices at the end of volume 5 tabulate important nuclear properties of all actinide and transactinide isotopes Volume 6 Chapters 32 through 39 consists of new chapters that focus on actinide species in the environment actinide waste forms nuclear fuels analytical chemistry of plutonium actinide chalcogenide and hydrothermal synthesis of actinide compounds The subject and author indices and list of contributors encompass all six volumes

Technical Books and Monographs Sponsored by the U.S. Atomic Energy Commission U.S. Atomic Energy Commission, 1976 *Recent Advances in Relativistic Molecular Theory* Kimihiko Hirao, 2004 Relativistic effects though minor in light atoms increase rapidly in magnitude as the atomic number increases For heavy atom species it becomes necessary to discard the Schrödinger equation in favor of the Dirac equation Construction of an effective many body Hamiltonian that accurately accounts for both relativistic and electron correlation effects in many electron systems is a challenge It is only in the past 20-25 years that relativistic quantum chemistry has emerged as a field of research in its own right and it seems certain that relativistic many electron calculations of molecular properties will assume increasing importance in the years ahead as relativistic quantum chemistry finds a wider range of applications With the increasing use of relativistic quantum chemical techniques in chemistry there is an obvious need to provide experts reviews of the methods and algorithms This volume aims to disseminate aspects of relativistic many electron theories and their exciting developments by practitioners Together the nine chapters provide an in depth account of the most important topics of contemporary research in relativistic quantum chemistry ranging from quasirelativistic effective core potential methods to relativistic coupled cluster theory

The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5) L.R. Morss, Norman M. Edelstein, Jean Fuger, 2007-12-31 The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements especially of the technologically important elements uranium and plutonium as well as the transactinide elements In addition to the comprehensive treatment of the chemical properties of each element ion and compound from atomic number 89 actinium through to 109 meitnerium this multi volume work has specialized and definitive chapters on electronic theory optical and laser fluorescence spectroscopy X ray absorption spectroscopy organoactinide chemistry thermodynamics magnetic properties the metals coordination chemistry separations and trace analysis Several chapters deal with environmental science safe handling and biological interactions of the actinide elements The Editors invited teams of authors who are active practitioners and recognized experts in their specialty to write each chapter and have endeavoured to provide a balanced and

insightful treatment of these fascinating elements at the frontier of the periodic table Because the field has expanded with new spectroscopic techniques and environmental focus the work encompasses five volumes each of which groups chapters on related topics All chapters represent the current state of research in the chemistry of these elements and related fields

Extractive Metallurgy of Rare Earths Nagaiyar Krishnamurthy, Chiranjib Kumar Gupta, 2015-12-02 New Edition Now Covers Recycling Environmental Issues and Analytical Determination Employing four decades of experience in the rare metal and rare earths industry the authors of Extractive Metallurgy of Rare Earths Second Edition present the entire subject of rare earth elements with depth and accuracy This second edition updates the most impor The Specific Heat Of Matter At

Low Temperatures Ahmet Tari, 2003-08-12 Recent discoveries of new materials and improvements in calorimetric techniques have given new impetus to the subject of specific heat Nevertheless there is a serious lack of literature on the subject This invaluable book which goes some way towards remedying that is concerned mainly with the specific heat of matter at ordinary temperatures It discusses the principles that underlie the theory of specific heat and considers a number of theoretical models in some detail The subject matter ranges from traditional materials to those recently discovered heavy fermion compounds high temperature superconductors spin glasses and so on and includes a large number of figures tables and references The book will be particularly useful for advanced undergraduate and postgraduate students as well as academics and researchers a **Magnetism in Metals** D. F. McMorrow, Jens Jensen, H. M. Rønnow, 1997 May 1

, 2022-01-19 No detailed description available for May 1 **Magnetism In Heavy Fermion Systems** Harry B Radousky, 2000-10-25 Magnetism in Heavy Fermion Systems is a review volume which covers an important subset of topics in the field of heavy fermion and non Fermi liquid physics It summarizes much of the experimental information in these areas and includes an article which discusses theoretical interpretations of the complex magnetic behavior of heavy fermion systems The topics covered include heavy fermion superconductivity muon spin relaxation in small moment heavy fermions neutron scattering from heavy fermions random localized magnetism in heavy fermions and magnetism in Pr containing cuprates One feature of the book which should be helpful to graduate students and new workers in the field is the extensive references and a separate list of review articles **Hydrogen Storage for Sustainability** Marcel Van de

Voorde, 2021-09-07 Carbon neutral hydrogen technologies play a role in preventing climate change and the capacity to store and transport hydrogen will be critical in the growing hydrogen economy This book focuses on new developments of hydrogen storage technologies and deals with an overview of the materials and science necessary for storing hydrogen with great attention to the synthesis kinetics and thermodynamics of new advanced materials e a porous carbon and nanomaterials Ideal book for students of materials science chemistry physics for researchers chemical and mechanical engineers for industrialists policymakers safety agencies and governments **Proceedings of the 8th Pacific Rim**

International Conference on Advanced Materials and Processing (PRICM-8) Fern D. S. Marquis, 2017-03-21 PRICM 8

features the most prominent and largest scale interactions in advanced materials and processing in the Pacific Rim region. The conference is unique in its intrinsic nature and architecture which crosses many traditional discipline and cultural boundaries. This is a comprehensive collection of papers from the 15 symposia presented at this event. **Magnetism: A Synchrotron Radiation Approach** Eric Beaurepaire, 2006-06-13. This volume contains the edited lectures of the fourth Mittelwihr school on Magnetism and Synchrotron Radiation. This series of events introduces graduate students and nonspecialists from related disciplines to the field of magnetism and magnetic materials with emphasis on synchrotron radiation as an experimental tool of investigation. These lecture notes present in particular the state of the art regarding the analysis of magnetic properties of new materials. *Photoelectron Spectroscopy* Stefan Hüfner, 2013-06-29. Photoelectron Spectroscopy presents an up to date introduction to the field by comprehensively treating the electronic structures of atoms, molecules, solids and surfaces. Brief descriptions are given of inverse photoemission, spin polarized photoemission and photoelectron diffraction. Experimental aspects are considered throughout the book and the results are carefully interpreted in terms of the theory. A wealth of measured data is presented in tabulator form for easy use by experimentalists. **Modern Techniques for Characterizing Magnetic Materials** Yimei Zhu, 2005-12-06. Modern Techniques for Characterizing Magnetic Materials provides an extensive overview of novel characterization tools for magnetic materials including neutron, photon and electron scatterings and other microscopy techniques by world renowned scientists. This interdisciplinary reference describes all available techniques to characterize and to understand magnetic materials, techniques that cover a wide range of length scales and belong to different scientific communities. The diverse contributions enhance cross discipline communication while also identifying both the drawbacks and advantages of different techniques which can result in deriving effective combinations of techniques that are especially fruitful at nanometer scales. It will be a valuable resource for all graduate students, researchers, engineers and scientists who are interested in magnetic materials including their crystal structure, electronic structure, magnetization dynamics and their associated magnetic properties and underlying magnetism.

Actinides and the Environment P.A. Sterne, A. Gonis, A.A. Borovoi, 1998-02-28. The handling of actinides and actinide based materials provides significant technological challenges due to the toxicity and radioactivity associated with these materials. These challenges are particularly apparent in the nuclear power industry. Under normal operation a reactor can produce a significant amount of spent fuel requiring subsequent containment for geologic times and under accident conditions it can release lethal doses of radioactive material to the environment. Inevitably radioactive material will enter the environment necessitating as complete an understanding as possible of its behavior. An understanding of the interaction between actinides and the environment must be based on a knowledge of their basic physical and chemical properties. To date although there is general agreement on the principles for waste disposal no facility has been built for the long term disposal of high level radioactive waste from either normal reactor operations or from accidental catastrophes. This makes it most important for the

scientific and technical community to develop the necessary cross disciplinary understanding that will help us implement safe and secure waste management accident remediation and accident prevention systems

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