

RESONANCE IONIZATION SPECTROSCOPY 2000

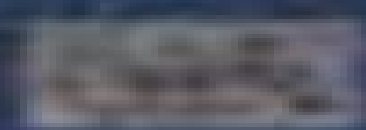


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Resonance Ionization Spectroscopy 2000

**Isao Tanihata, Hiroshi Toki, Toshitaka
Kajino**

A decorative graphic element consisting of a red and white circular shape, resembling a stylized 'C' or a partial circle, located to the right of the authors' names.

Resonance Ionization Spectroscopy 2000:

Resonance Ionization Spectroscopy 2000 James E. Parks, 1984 Resonance Ionization Spectroscopy and Its Applications 1996 N. Winograd, J.E. Parks, 1998-07-09 Emphasizes work across disciplines and how the technology may be influenced by potential applications in other fields The 89 papers cover the technique from the perspectives of molecules and molecular clusters femtoseconds atoms environmental applications surface analysis new laser sources and *Nuclear and Radiochemistry* Jens-Volker Kratz, Karl Heinrich Lieser, 2013-08-15 The third edition of this classic in the field is completely updated and revised with approximately 30% new content so as to include the latest developments The handbook and ready reference comprehensively covers nuclear and radiochemistry in a well structured and readily accessible manner dealing with the theory and fundamentals in the first half followed by chapters devoted to such specific topics as nuclear energy and reactors radiotracers and radionuclides in the life sciences The result is a valuable resource for both newcomers as well as established scientists in the field **Analysis of Environmental Radionuclides** Pavel P. Povinec, 2011-07-28 The purpose of this book is to present a state of art summary of current knowledge of methods of assessment of radionuclides in the terrestrial and marine environments It cover the traditional methods of radioactivity measurements such as radiometrics techniques but also recent developments in the mass spectrometry sector The book starts with a short preface introducing the subject of the book summarising content and philosophy of the book as well as the most important historical achievements The scientific topics are introduced by description of sampling methods optimisation of sampling sites and sampling frequency The recent developments in radiochemical separation methods using chromatography resins for the treatment of actinides transuranics and other groups of radioelements are also described No other book is available covering all aspects of environmental radioactivity measurements although remarkable progress has been made in detection techniques over the last ten years At present the new methods enable to carry out investigations which were not possible before either because of lack of sensitivity or because of the fact that they required too large samples 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

Laser in Environmental and Life Sciences Peter Hering, Jan Peter Lay, Sandra Stry, 2013-04-17

Studies of environmental conditions have become more and more important for our knowledge about the complex processes resulting from natural and man made influences on our environment During recent years new analytical techniques have been developed that are mainly based on laser spectroscopy They are not only more sensitive and reach lower detection limits but they also give more detailed information on the species under investigation and their interactions with the environment They therefore can considerably deepen our understanding of correlations between different processes and their causes which is the precondition for avoiding ecological damage and for strengthening effective engagement in environmental protection Also in life sciences revolutionary new techniques for diagnostics have been introduced which allow a thorough investigation of biological processes in plants and their dependence on environmental conditions In particular for medical applications these new mainly non invasive techniques have influenced medical diagnostics and treatment considerably This book deals with these very interesting interdisciplinary subjects which demand experience and knowledge about both fields the basic physics of the detection techniques and the relevant problems in environmental and life sciences Therefore authors from a broad area of fundamental and applied research have contributed to this book which is organized in 4 sections Remote sensing of the atmosphere detection techniques for liquid and solid samples applications to gaseous substances and aerosols and finally applications in biology and medicine

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 **Correlations, Polarization, and Ionization in Atomic Systems** Don H.

Madison,2002-01-14 This book covers a broad range of currently hot topics in atomic physics Rapid progress both in experimental and theoretical techniques lead to continuously growing insight into topics like many body and electron electron correlation effects in excitation and charge transfer processes Furthermore established techniques originally developed to study atomic collisions have been refined to a point where they are now being applied to chemical solid state and even biological systems thus providing links to other scientific areas **Handbook of Radioactivity Analysis** Michael

F. L'Annunziata,2003-09-12 Handbook of Radioactivity Analysis describes the preparation of samples from a wide variety of matrices assists the investigator or technician in the selection and use of appropriate radiation detector and presents the latest state of the art computerized and automated methods of analysis The new Handbook of Radioactivity Analysis is suitable as a teaching text for university and professional training courses Of interest to those working in a wide spectrum of disciplines including scientists engineers physicians and technicians involved with the preparation utilization or disposal of radioactive materials and the measurement of radioactivity in the environment New expanded and updated edition with three additional chapters Provides modern procedures and guidelines for the analysis of natural and man made environmental radionuclides Includes up to date detailed sample preparation techniques for soil air plant water biological tissue filter material gels surface swipes etc Provides practical information for radioactivity monitoring spectrometric analysis and radiation dosimetry Covers state of the art high sample throughput microplate analysis techniques and multi detector scintillation proximity analysis Presents the latest methods of rapid electronic radionuclide imaging Written by twenty five experts from eight countries Over 2 000 literature references Handbook of Stable Isotope Analytical Techniques Pier A.

de Groot,2004-10-27 Parent with price Volume I contains subjective reviews specialized and novel technique descriptions by guest authors Part 1 includes contributions on purely analytical techniques and Part 2 includes matters such as development of mass spectrometers stability of ion sources standards and calibration correction procedures and experimental methods to obtain isotopic fractionation factors Volume II will be available in 2005 **Energy Research Abstracts** ,1982 **Atoms,**

Molecules and Photons Wolfgang Demtröder,2019-02-09 This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed over the last two centuries both by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro particles It illustrates the wave model of particles by many examples and shows the limits of classical description The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more

detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly Many examples and problems with solutions are offered to encourage readers to actively engage in applying and adapting the fundamental physics presented in this textbook to specific situations Completely revised third edition with new sections covering all actual developments like photonics ultrashort lasers ultraprecise frequency combs free electron lasers cooling and trapping of atoms quantum optics and quantum information

Photoionization and Photo-Induced Processes in Mass Spectrometry Ralf Zimmermann, Luke Hanley, 2021-07-06 Provides comprehensive coverage of laser induced ionization processes for mass spectrometry analysis Drawing on the expertise of the leading academic and industrial research groups involved in the development of photoionization methods for mass spectrometry this reference for analytical scientists covers both the theory and current applications of photo induced ionization processes It places widely used techniques such as MALDI side by side with more specialist approaches such as REMPI and RIMS and discusses leading edge developments in ultrashort laser pulse desorption to give readers a complete picture of the state of the technology Photoionization and Photo Induced Processes in Mass Spectrometry Fundamentals and Applications starts with a complete overview of the fundamentals of the technique covering the basics of the gas phase ionization as well as those of laser desorption and ablation pulse photoionization and single particle ionization Numerous application examples from different analytical fields are described that showcase the power and the wide scope of photo ionization in mass spectrometry The first general reference book on photoionization techniques for mass spectrometry Examines technologies and applications of gas phase resonance enhanced multiphoton ionization mass spectrometry REMPI MS and gas phase resonance ionization mass spectrometry RIMS Provides complete coverage of popular techniques like MALDI Discusses the current and potential applications of each technology focusing on process and environmental analysis Photoionization and Photo Induced Processes in Mass Spectrometry Fundamentals and Applications is an excellent book for spectroscopists analytical chemists photochemists physical chemists and laser specialists

Handbook of Nuclear Physics Isao Tanihata, Hiroshi Toki, Toshitaka Kajino, 2023-09-04 This handbook is a comprehensive systematic source of modern nuclear physics It aims to summarize experimental and theoretical discoveries and an understanding of unstable nuclei and their exotic structures which were opened up by the development of radioactive ion RI beam in the late 1980s The handbook comprises three major parts In the first part the experiments and measured facts are well organized and reviewed The second part summarizes recognized theories to explain the experimental facts introduced in the first part Reflecting recent synergistic progress involving both experiment and theory the chapters both parts are mutually related The last part focuses on cosmo nuclear physics one of the mainstream subjects in modern nuclear physics Those comprehensive topics are presented concisely Supported by introductory reviews all chapters are designed to present their topics in a manner accessible to readers at the graduate level The book therefore serves as a valuable source for beginners as well helping them to learn modern nuclear physics

IGISOL Juha Äystö, Tommi Eronen, Ari Jokinen, Anu

Kankainen, Iain Moore, Heikki Penttilä, 2014-01-23 The IGISOL group at the University of Jyväskylä studies the properties of nuclei far off the line of beta stability. These studies are performed locally at the Jyväskylä Ion Guide Isotope Separator On Line IGISOL facility as well as at a number of other laboratories such as the ISOLDE facility in CERN at GANIL and in Helmholtzzentrum GSI the location of the future radioactive beam facility FAIR. The group is also actively involved in work to support the development of international future facilities EURISOL and aforementioned FAIR. This book presents carefully selected papers to portray the work at IGISOL. Previously published in the journals *Hyperfine Interactions* and *European Physical Journal A*. **Index Medicus**, 2004 Vols for 1963 include as pt 2 of the Jan issue. Medical subject headings New Horizons in Fundamental Physics. Stefan Schramm, Mirko Schäfer, 2016-11-11 This volume presents the state of the art in selected topics across modern nuclear physics covering fields of central importance to research and illustrating their connection to many different areas of physics. It describes recent progress in the study of superheavy and exotic nuclei which is pushing our knowledge to ever heavier elements and neutron richer isotopes. Extending nuclear physics to systems that are many times denser than even the core of an atomic nucleus one enters the realm of the physics of neutron stars and possibly quark stars a topic that is intensively investigated with many ground based and outer space research missions as well as numerous theoretical works. By colliding two nuclei at very high ultra relativistic energies one can create a fireball of extremely hot matter reminiscent of the universe very shortly after the big bang leading to a phase of melted hadrons and free quarks and gluons the so called quark gluon plasma. These studies tie up with effects of crucial importance in other fields. During the collision of heavy ions electric fields of extreme strength are produced potentially destabilizing the vacuum of the atomic physics system subsequently leading to the decay of the vacuum state and the emission of positrons. In neutron stars the ultra dense matter might support extremely high magnetic fields far beyond anything that can be produced in the laboratory significantly affecting the stellar properties. At very high densities general relativity predicts the stellar collapse to a black hole. However a number of current theoretical activities modifying Einstein's theory point to possible alternative scenarios where this collapse might be avoided. These and related topics are addressed in this book in a series of highly readable chapters. In addition the book includes fundamental analyses of the practicalities involved in transiting to an electricity supply mainly based on renewable energies investigating this scenario less from an engineering and more from a physics point of view. While the topics comprise a large scope of activities the contributions also show an extensive overlap in the methodology and in the analytical and numerical tools involved in tackling these diverse research fields that are the forefront of modern science. **The Analysis of Nuclear Materials and Their Environments**. Claude André Degueldre, 2017-10-11 This book provides an overview of passive and interactive analytical techniques for nuclear materials. The book aims to update readers on new techniques available and provide an introduction for those who are new to the topic or are looking to move into actinides and nuclear materials science. The characterization of actinide species and radioactive

materials is vital for understanding how these elements and radioactive isotopes are formed and behave and how these materials can be improved The analysis of the actinides or radioactive materials goes beyond spent fuel science to the applicable complete fuel cycle and including analysis of reactor materials **Journal of Research of the National Bureau of Standards** ,1988 *Journal of Research of the National Institute of Standards and Technology* ,1988

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