

Radioactivity Applied to Chemistry

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Kasimir Fajans



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Nuclear and Radiochemistry Karl Heinrich Lieser, 2008-09-26 This handbook gives a complete and concise description of the up to date knowledge of nuclear and radiochemistry and applications in the various fields of science I is based on teaching courses and on research for over 40 years The book is addressed to any researcher wishing sound knowledge about the properties of matter be it a chemist a physicist a medical doctor a mineralogist or a biologist They will all find it a valuable source of information about the principles and applications of nuclear and radiochemistry Research in radiochemistry includes Study of radioactive matter in nature investigation of radioactive transmutations by chemical methods chemistry of radioelements etc Applications include Radionuclides in geo and cosmochemistry dating by nuclear methods radioanalysis Mossbauer spectroscopy and related methods behaviour of natural and man made radionuclides in the environment dosimetry and radiation protection All subjects are presented clearly and comprehensibly and in logical sequence Detailed derivations of equations are avoided and relevant information is compiled in tables The recent edition of the multi coloured Karlsruhe Chart of the Nuclides is included Clearly a standard work by an author with extensive experience in research and teaching

Applied Radiation Chemistry Robert J. Woods, Alexei K. Pikaev, 1993-12-16 Deals with radiation processing as a whole using a chemical perspective Offers basic information on the procedures taking place and covers radiation dosimetry plus a wide range of actual and potential applications Provides excellent coverage of radiation processing literature with bibliographies pertaining to key areas of radiation chemistry

Radioactivity Applied to Chemistry Arthur C. Wahl, 1958 **Fundamentals of Radiochemistry** Jean-Pierre Adloff, 2018-01-18 Fundamentals of Radiochemistry presents a comprehensive overview of the principles objectives and methods of radiochemistry and how they are applied in various fields of chemistry Topics covered include characteristics of radioactivity and radioactive matter the chemistry of ephemeral radionuclides actinides of high atomic number positronium and physicochemical behavior of systems containing one or more compounds at tracer or sub tracer concentration Numerous appendices are included to provide additional detail to information presented in chapters Because Fundamentals of Radiochemistry is the first book to discuss what chemical information can be obtained with sub tracer amounts it is essential reading for inorganic chemists radiochemists analytical chemists nuclear chemists and others interested in the topic

Radioactivity Applied to Chemistry .
Arthur C. Wahl, Editor Arthur C. Wahl, Norman A. Bonner, 1958 **Nuclear Chemistry** Maheshwar Sharon, Madhuri

Sharon, 2021-02-01 This book is designed to serve as a textbook for core courses offered to postgraduate students enrolled in

chemistry This book can also be used as a core or supplementary text for nuclear chemistry courses offered to students of chemical engineering The book covers various topics of nuclear chemistry like Shell model fission fusion reaction natural radioactive equilibrium series nuclear reactions carried by various types of accelerators In addition it describes the law of decay of radioactivity type of decay and interaction of radiation with matter It explains the difference between ionization counter scintillation counter and solid state detector This book also consists of end of book problems to help readers aid self learning The detailed coverage and pedagogical tools make this an ideal textbook for postgraduate students and researchers enrolled in various chemistry and engineering courses This book will also be beneficial for industry professionals in the allied fields

Applied Chemistry and Physics Robert A. Burke, 2020-12-17 Written by a hazardous materials consultant with over 40 years of experience in emergency services the five volume Hazmatology The Science of Hazardous Materials suggests a new approach dealing with the most common aspects of hazardous materials containers and the affected environment It focuses on innovations in decontamination monitoring instruments and personal protective equipment in a scientific way utilizing common sense and takes a risk benefit approach to hazardous material response This set provides the reader with a hazardous materials Tool Box and a guide for learning which tools to use under what circumstances Dealing with hazardous materials incidents cannot be accomplished effectively and safely without knowing the effects these materials have Volume Three Applied Chemistry and Physics is not about teaching chemistry and physics It is about presenting these topics at the level that emergency responders will understand so they can apply the concepts using a risk management system FEATURES Uses a scientific approach utilizing analysis of previous incidents Offers a risk benefit approach based upon science and history Provides understanding tools for your Hazmat Tool Box Simplifies physical and chemical characteristics Utilizes chemistry and physics to identify hazards to responders

Nuclear and Radiochemistry Gerhart Friedlander, Joseph W. Kennedy, Edward S. Macias, Julian M. Miller, 1981-08-10 Introduction to Radiation Chemistry Third Edition J W T Spinks and R J Woods The only single source guide to radiation chemistry has now been expanded to include new material on applied radiation chemistry and experimental methods as well as gaseous and solid systems Other enhancements include broadened coverage of chemical reactions initiated by high energy and their commercial applications as well as new topics related to kinetics and experimental procedures The Third Edition features numerical data in SI units simplifying most radiation chemical calculations an expanded problem section and key references updated to reflect recent research 1990 0 471 61403 3 574 pp The Elements Beyond Uranium Glenn T Seaborg and Walter D Loveland Written by the team of Nobel Laureate Glenn Seaborg an active participant in the discovery of transuranium elements and leading chemist Walter Loveland here is a unique inside account of the discovery of these elements as well as the first definitive look at their chemical physical and nuclear properties The book contains detailed discussions of nuclear synthesis reactions experimental techniques natural occurrence superheavy elements practical applications and predictions for the future as well as such special features as

excerpts from original notebooks pictures of element discovery teams and up to date tables of nuclear properties 1990 0 471 89062 6 359 pp *Radioactivity Applied to Chemistry*. Arthur C. Wahl, Editor; Norman A. Bonner, Assistant Editor Arthur C. Wahl, **The Technical Applications of Radioactivity** Engelbert Broda, Thomas Schönfeld, 2013-10-22 The Technical Applications of Radioactivity Volume 1 reviews the technical applications of radioactivity with emphasis on the potentialities of nuclear physics and nuclear chemistry for the peaceful development of industrial productivity Topics covered range from measurement of radioactivity to the production and chemistry of radio elements as well as the application of radioactivity in chemical analysis and in the mining metallurgical electrical and engineering industries Comprised of 13 chapters this volume first deals with the fundamentals of modern atomic theory followed by an introduction to the basic facts of radioactivity the methods used for measuring it and chemical operations with radioactive substances Subsequent chapters focus on the use of radioactivity in chemical analysis hydrology and water supply and in industries such as mining and oil production engineering and chemical sectors along with forestry and agriculture The final chapter looks at precautions in the use of radioactive materials to protect research workers physicians and other personnel against the harmful effects of ionizing radiation This book is written for scientists and scientific or technical workers Handbook of Nuclear Chemistry Attila Vértes, Sándor Nagy, Zoltán Klencsár, Rezso György Lovas, Frank Rösch, 2010-12-10 This revised and extended 6 volume handbook set is the most comprehensive and voluminous reference work of its kind in the field of nuclear chemistry The Handbook set covers all of the chemical aspects of nuclear science starting from the physical basics and including such diverse areas as the chemistry of transactinides and exotic atoms as well as radioactive waste management and radiopharmaceutical chemistry relevant to nuclear medicine The nuclear methods of the investigation of chemical structure also receive ample space and attention The international team of authors consists of scores of world renowned experts nuclear chemists radiopharmaceutical chemists and physicists from Europe USA and Asia The Handbook set is an invaluable reference for nuclear scientists biologists chemists physicists physicians practicing nuclear medicine graduate students and teachers virtually all who are involved in the chemical and radiopharmaceutical aspects of nuclear science The Handbook set also provides further reading via the rich selection of references Nuclear Science Abstracts, 1976 **U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973** United States. Environmental Protection Agency. Library Systems Branch, 1974 Radiochemistry and Nuclear Chemistry Gregory Choppin, Jan-Olov Liljenzin, Jan Rydberg, 2002 Origin of Nuclear Science Nuclei Isotopes and Isotope Separation Nuclear Mass and Stability Unstable Nuclei and Radioactive Decay Radionuclides in Nature Absorption of Nuclear Radiation Radiation Effects on Matter Detection and Measurement Techniques Uses of Radioactive Tracers Cosmic Radiation and Elementary Particles Nuclear Structure Energetics of Nuclear Reactions Particle Accelerators Mechanics and Models of Nuclear Reactions Production of Radionuclides The Transuranium Elements Thermonuclear Reactions the Beginning and the Future

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 Subject Index **Radioactivity and the Latest Developments in the Study of the Chemical Elements** Kasimir
 Fajans,1923 RADIOACTIVITY APPLIED TO CHEMISTRY. AC WAHL (ED.),1951 **Applied Chemistry: A Textbook for**
Engineers and Technologists H.D. Gesser,2013-11-27 This book is the result of teaching a one semester course in Applied
 Chemistry Chemistry 224 to second year engineering students for over 15 years The contents of the course evolved as the
 interests and needs of both the students and Engineering Faculty changed All the students had at least one semester of
 Introductory Chemistry and it has been assumed in this text that the students have been exposed to Thermodynamics
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