

RADIOCHEMISTRY AND NUCLEAR METHODS OF ANALYSIS



**William D. Ehmann
Diane E. Vance**

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Radiochemistry And Nuclear Methods Of Analysis

Zeev Alfassi, Max Peisach



Radiochemistry And Nuclear Methods Of Analysis:

Radiochemistry and Nuclear Methods of Analysis William D. Ehmann, Diane E. Vance, 1991-09-10 From nuclear dating methods to nucleosynthesis in stars it's all here The first practical comprehensive guide to the science of radiochemistry Radiochemistry and Nuclear Methods of Analysis is the first thorough and up to date look for the nonspecialist at the fundamentals of radiochemistry as well as the full range of advances currently made possible by the applications of radioactivity Without an emphasis on high level mathematics or abstruse theoretical physics the book provides a clear fundamentals first look at radioactivity the principles of radioactive decay and nuclear reactions as well as Modern radiochemical instrumentation Nuclear dating methods Methods for the production of radionuclides The use of tracers and nuclear methods of analysis The origin of the chemical elements The biological effects of radiation The book's user friendly instructional format designed for both beginning and advanced students includes numerous end of chapter problems ranging from the simple to complex which familiarize the reader with equations and concepts in the text References to recent monographs available in most college and university libraries provide direction to more specialized literature Invaluable to both students and professionals in search of a practical grasp of the subject Radiochemistry and Nuclear Methods of Analysis is a clear introduction to radioactivity and radionuclear chemistry's principles methods and applications **Radiochemistry and Nuclear Methods of Analysis** W.D. Ehmann, 1991 **Nuclear Techniques in Analytical Chemistry** Alfred J. Moses, 2013-10-22 Nuclear Techniques in Analytical Chemistry discusses highly sensitive nuclear techniques that determine the micro and macro amounts or trace elements of materials With the increasingly frequent demand for the chemical determination of trace amounts of elements in materials the analytical chemist had to search for more sensitive methods of analysis This book accustoms analytical chemists with nuclear techniques that possess the desired sensitivity and applicability at trace levels The topics covered include safe handling of radioactivity measurement of natural radioactivity and neutron activation analysis The positive ion and gamma ray activation analysis isotope dilution and tracer investigations of analytical techniques and geo and cosmochronology and miscellaneous nuclear techniques are also elaborated in this text This publication is intended for analytical chemists but is also valuable to students intending to acquire knowledge on nuclear techniques and analytical methods in chemistry 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 **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 *Analytical Techniques for Trace Elements in Geochemical Exploration* Raghaw Saran,2022-12-07 This book covers a wide spectrum of destructive and non destructive analytical techniques and recent developments in them for quantitation of trace elements *Handbook of Advanced Materials Testing* Louise Ferrante,1994-11-29 This work discusses techniques for developing new engineering materials such as elastomers plastic blends composites ceramics and high temperature alloys Instrumentation for evaluating their properties and identifying potential end uses are presented The book is intended for materials manufacturing mechanical chemical and metallurgical engi *Handbook for the Assessment of Soil Erosion and Sedimentation Using Environmental Radionuclides* F. Zapata,2007-05-08 This publication deals with soil erosion and sedimentation Soil erosion and associated sediment deposition are natural landscape forming processes that can be greatly accelerated by human intervention through deforestation overgrazing and non sustainable farming practices Soil erosion and sedimentation may not only cause on site degradation of the natural resource base but also off site problems downstream sediment deposition in fields floodplains and water bodies water pollution eutrophication and reservoir siltation etc with serious environmental and economic impairment There is an urgent need for accurate information to quantify the problem and to underpin the selection of effective soil conservation technologies and sedimentation remediation strategies including assessment of environmental and economic impacts Existing classical techniques to document soil erosion are capable of meeting some of these needs but they all possess important limitations The quest for alternative techniques for assessing soil erosion to complement existing methods directed attention to the use of environmental radionuclides in particular fallout as tracers to quantify rates and establish patterns of soil redistribution within the landscape The concept of a project on the use of environmental radionuclides to quantify soil redistribution was first formulated at an Advisory Group Meeting convened in Vienna April 1993 by the International Atomic Energy Agency IAEA **Instrumental Multi-Element Chemical Analysis** Z.B.

Alfassi,2012-12-06 The analysis of materials containing several elements used to be a difficult problem for analytical chemists so a well established sequence of wet chemical qualitative tests were performed to ensure each element was detected Quantitative tests could then be carried out on the sample according to the range of elements present Most analytical chemists were very familiar with these techniques having been taught them from a very early stage in their education and careers The analytical chemist can now call on a range of specialist instrumental techniques which can detect the presence of many elements often simultaneously and often quantitatively providing rapid results on samples which in the past could take days The drawback is that the instruments tend to be expensive suited to particular sample types or matrices and complex in both setting up and in the interpretation of results Furthermore the general analytical chemist may have access and familiarity with only one or two methods Written by an international team of contributors each experts in their particular fields this book familiarizes analytical chemists with the range of elemental analysis techniques to enable them to specify the most appropriate test for any given sample In addition it contains important chapters on sample preparation and quality control essential elements in obtaining accurate and reliable analytical results As such this book will be essential reading for all analytical chemists The techniques of elemental analysis are important in many other disciplines so the book will be of particular interest to those commissioning a wide range of analytical measurements such as chemists geologists environmental scientists and biologists The breadth and depth of coverage will also make the book very useful for advanced students

Environmental Forensics Robert D. Morrison,Brian L. Murphy,2010-08-04 Environmental forensics is the application of scientific techniques for the purpose of identifying the source and age of a contaminant Over the past several years this study has been expanding as a course of study in academia government and commercial markets The US Environmental Protection Agency EPA Federal Bureau of Investigation FBI and Federal Emergency Management Agency FEMA are among the governmental agencies that utilize the study of environmental forensics to ensure national security and to ensure that companies are complying with standards Even the International Network for Environmental Compliance and Enforcement INECE a group supported by the European Commission and the World Bank utilizes the study of environmental forensics as it applies to terror threats This title is a hands on guide for environmental scientists engineers consultants and industrial scientists to identify the origin and age of a contaminant in the environment and the issues involved in the process An expansion of the authors first title with Academic Press Introduction to Environmental Forensics this is a state of the art reference for those exploring the scientific techniques available Up to date compendium for referencing forensic techniques unique to particular contaminants International scientific unit system Contributors from around the world providing international examples and case studies

Elemental Analysis of Airborne Particles Marsha Creatchman,2024-12-06 An increased standard of living in developed and developing countries has brought about a distinct rise in pollution The problem of air pollution has specifically increased the public s awareness of the environmental and health related consequences

resulting from modern day industrial technology This detailed collection of works devoted to the most popular methods in elemental analysis of airborne particles offers investigators a comprehensive book on the most common laboratory analytical methods currently used in trace element analysis Discussed are atomic absorption spectrometry inductively coupled plasma atomic emission particle induced gamma ray analysis particle elastic scattering and Rutherford backscattering and neutron activation analysis Specific sections on quality assurance quality control and source receptor modeling have also been included

Radiochemistry G W A Newton, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 90 years The Royal Society of chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

Instrumental Methods and Analysis Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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Anions **Handbook on Metals in Clinical and Analytical Chemistry** Hans Seiler, Astrid Sigel, Helmut Sigel, 1994-01-25 Describes general aspects of metals in clinical chemistry focusing not only on the physiology of metal ions and their analytical determination in biological materials but also on their geochemical distribution technical uses and environmental effects

Radiochemistry and Nuclear Chemistry Gregory Choppin, Jan-Olov Liljenzin, Jan Rydberg, Christian Ekberg, 2013-09-05 Radiochemistry or nuclear chemistry is the study of radiation from an atomic and molecular perspective including elemental transformation and reaction effects as well as physical health and medical properties This revised edition of one of the earliest and best known books on the subject has been updated to bring into teaching the latest developments in research and the current hot topics in the field To further enhance the functionality of this text the authors have added numerous teaching aids examples in MathCAD with variable quantities and options hotlinks to relevant text sections from the book and online self grading tests New edition of a well known respected text in the specialized field of nuclear radiochemistry Includes an interactive website with testing and evaluation modules based on exercises in the book Suitable for both radiochemistry and nuclear chemistry courses

Compendium of Terminology in Analytical Chemistry D Brynn Hibbert, 2023-02-03 How do you describe an analytical method measure the purity of the new chemical that you have just synthesized or report the proper units of measurement For analytical chemists the principal tool of the trade or source of terms is this book the so called Orange Book First published in 1978 this latest edition takes into account the explosion of new analytical procedures and at the same time the diversity of techniques and the quality and performance characteristics of the procedures that are the focus of interest The scope of analytical chemistry has widened new types of instrumental techniques have emerged and automation has taken over Answers can now be shared not only on the chemical composition and structure of the sample but also changes in composition and structure in space and time New chapters on chemometrics bio analytical methods of analysis and sample treatment and preparation have been added The terminology of metrology and quality assurance is now up to date with the latest ISO and JCGM standards This new volume will be an indispensable reference resource for the coming decade revising and updating accepted terminology and providing the official language of analytical chemistry

Elemental Analysis by Particle Accelerators Zeev Alfassi, Max Peisach, 2020-11-25 *Elemental Analysis by Particle Accelerators* describes the theory methodology and applications for a wide variety of sensitive non destructive methods of analysis capable of both high selectivity and multielemental determinations Specific methods discussed include radioactive methods particle backscatter analysis recoil techniques and nuclear reaction analysis The use of multielemental PIXE and PIGE analyses of real world thick samples in environmental studies trace element applications in biology and provenance studies in archaeology are also covered The book is a useful reference for practicing specialists and an essential text for students

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1976 *Activation Analysis* Institute for Materials Research (U.S.). Analytical Chemistry Division, 1972

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