

RADIOCHEMISTRY AND NUCLEAR METHODS OF ANALYSIS



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Radiochemistry And Nuclear Methods Of Analysis

Z.B. Alfassi



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

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 *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 ERDA Energy Research Abstracts United States. Energy Research and Development Administration,1976 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration. Technical Information Center,1976 **Activation Analysis** Institute for Materials Research (U.S.). Analytical Chemistry Division,1972 **Nuclear Science Abstracts** ,1975

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