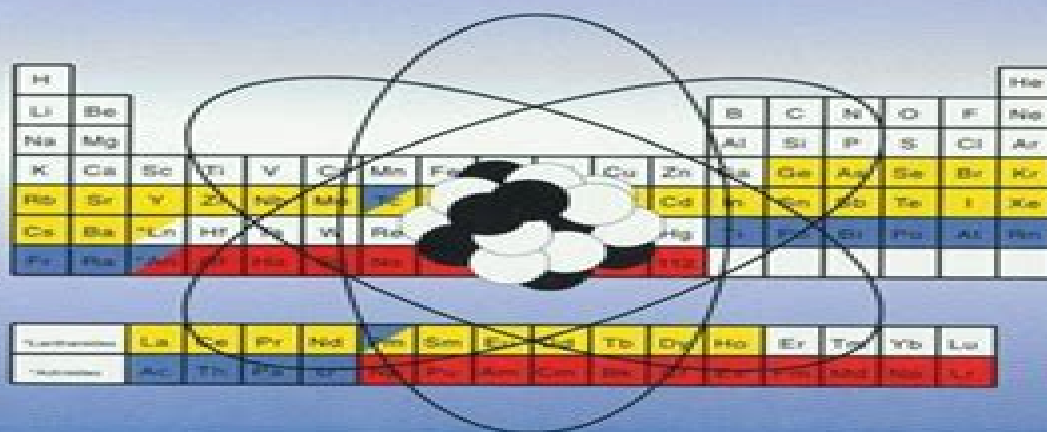


RADIOCHEMISTRY and NUCLEAR CHEMISTRY

2nd Edition
of Nuclear and Radiochemistry
Theory and Applications



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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 It 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 Mass spectrometry 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

Nuclear Chemistry Gregory R. Choppin, Jan Rydberg, 1980 The first book for advanced students of chemistry and chemical engineering to cover both basic nuclear chemistry and the whole nuclear power fuel cycle including waste handling and storage and associated hazards Covers all major advances in the field up to 1978 Includes problems and solutions The book has been course tested at Chalmers University of Technology Sweden *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 and Radiochemistry** Jens-Volker Kratz, 2021-10-05 Nuclear and Radiochemistry The leading resource for anyone looking for an accessible and authoritative introduction to nuclear and radiochemistry In the newly revised Fourth Edition of Nuclear and Radiochemistry Fundamentals and Applications distinguished chemist Jens Volker Kratz delivers a two volume handbook that has become the gold standard in teaching and learning nuclear and radiochemistry The books cover the theory and fundamentals of the subject before moving on the technical side of nuclear chemistry with coverage of nuclear energy nuclear reactors and radionuclides in the life sciences This latest edition discusses the details and impact of the Chernobyl and Fukushima nuclear disasters as well as new research facilities including FAIR and HIM It also incorporates new methods for target preparation and new processes for nuclear fuel recycling like EURO GANEX Finally the volumes extensively cover environmental technological advances and the effects of radioactivity on the environment Readers will also find An accessible and thorough introduction to the fundamental concepts of nuclear physics and chemistry including atomic processes classical mechanics relativistic mechanics and the Heisenberg Uncertainty Principle Comprehensive explorations of radioactivity in nature radioelements radioisotopes and their atomic masses and other physical properties of nuclei Practical discussions of the nuclear force nuclear structure decay modes radioactive decay kinetics and nuclear radiation In depth examinations of the statistical considerations relevant to radioactivity measurements Written for practicing nuclear chemists and atomic physicists Nuclear and Radiochemistry Fundamentals and Applications is also an indispensable resource for nuclear physicians power engineers and professionals working in the nuclear industry **Radiochemistry and Nuclear Methods of Analysis** William D. Ehmann, Diane E.

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Modern Nuclear Chemistry Walter D. Loveland,David J. Morrissey,Glenn T. Seaborg,2017-04-10 Written by established experts in the field this book features in depth discussions of proven scientific principles current trends and applications of nuclear chemistry to the sciences and engineering Provides up to date coverage of the latest research and examines the theoretical and practical aspects of nuclear and radiochemistry Presents the basic physical principles of nuclear and radiochemistry in a succinct fashion requiring no basic knowledge of quantum mechanics Adds discussion of math tools and simulations to demonstrate various phenomena new chapters on Nuclear Medicine Nuclear Forensics and Particle Physics and updates to all other chapters Includes additional in chapter sample problems with solutions to help students Reviews of 1st edition an authoritative comprehensive but succinct state of the art textbook The Chemical Educator and an excellent resource for libraries and laboratories supporting programs requiring familiarity with nuclear processes

CHOICE **Nuclear and Radiochemistry, 2 Volume Set** Jens-Volker Kratz,Karl Heinrich Lieser,2013-12-04 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 [Radiochemistry and Nuclear Chemistry](#) Gregory Choppin,Jan Rydberg,Jan-Olov Liljenzin,2001-12-03 Radiochemistry or Nuclear Chemistry is the study of radiation from an atomic or 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 In order to further enhance the functionality of this text the authors have added numerous teaching aids that include an interactive website that features testing examples in MathCAD with variable quantities and options hotlinks to relevant text sections from the book and online self grading texts As in the previous edition readers can closely follow the structure of the chapters from the broad introduction through the more in depth descriptions of radiochemistry then nuclear radiation chemistry and finally the guide to nuclear energy including energy production fuel cycle and waste management 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 **Library of**

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