

Chemistry and Analysis of Radionuclides

Laboratory Techniques and Methodology



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Chang H. Oh



Chemistry And Analysis Of Radionuclides Laboratory Techniques And Methodology:

Chemistry and Analysis of Radionuclides Jukka Lehto,Xiaolin Hou,2011-01-18 Written by chemists for chemists this is a comprehensive guide to the important radionuclides as well as techniques for their separation and analysis It introduces readers to the important laboratory techniques and methodologies in the field providing practical instructions on how to handle nuclear waste and radioactivity in the environment

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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

Handbook of

Radioactivity Analysis Michael F. L'Annunziata, 2020-03-07 Handbook of Radioactivity Analysis Radiation Physics and Detectors Volume One and Radioanalytical Applications Volume Two Fourth Edition constitute an authoritative reference on the principles practical techniques and procedures for the accurate measurement of radioactivity everything from the very low levels encountered in the environment to higher levels measured in radioisotope research clinical laboratories biological sciences radionuclide standardization nuclear medicine nuclear power and fuel cycle facilities and in the implementation of nuclear forensic analysis and nuclear safeguards It includes sample preparation techniques for all types of matrices found in the environment including soil water air plant matter and animal tissue and surface swipes Users will find the latest advances in the applications of radioactivity analysis across various fields including environmental monitoring radiochemical standardization high resolution beta imaging automated radiochemical separation nuclear forensics and more Spans two volumes Radiation Physics and Detectors and Radioanalytical Applications Includes a new chapter on the analysis of environmental radionuclides Provides the latest advances in the applications of liquid and solid scintillation analysis alpha and gamma spectrometry mass spectrometric analysis Cherenkov counting flow cell radionuclide analysis radionuclide standardization aerosol analysis high resolution beta imaging techniques analytical techniques in nuclear forensics and nuclear safeguards Describes the timesaving techniques of computer controlled automatic separation and activity analysis of radionuclides Provides an extensive table of the radiation characteristics of most radionuclides of interest for the radioanalytical chemist

Hazardous and Radioactive Waste Treatment Technologies Handbook Chang H. Oh, 2001-06-27 With detailed photos and schematic system diagrams the Hazardous and Radioactive Waste Treatment Technologies Handbook provides the latest information on current technologies in the market Intended as a reference for scientists engineers and engineering students it covers waste related thermal and non thermal technologies separation techniques and stabilization technologies It provides an overview of recent waste technologies for both hazardous chemical wastes and radioactive wastes By implementing the techniques presented in this book readers will be able to decide which appropriate technology to use and how to design the equipment for their particular needs

Medical Geology Majeti Narasimha Vara Prasad, Meththika Vithanage, 2023-03-08 Medical Geology The key to understanding the relationship between the geological environment and human health Medical geology deals with of the impact of environmental factors on the health of individual human beings and communities In particular it studies environmental exposure to both macro and micronutrients in the geosphere hydrosphere and atmosphere respectively soil water and airborne dust which may positively or negatively impact human growth development and overall health The insights contributed by this burgeoning field can aid not only in individual medical cases but also in assessing disproportionately impacted communities and addressing global medical inequality Medical Geology En route to One Health is among the first books to address this vital subject by summarizing recent research in this field It also serves as an introduction to the multidisciplinary One Health methodology

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