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# **Separation Techniques in Nuclear Waste Management**

*Edited by*

**Thomas E. Carleson,  
Nathan A. Chipman and Chien M. Wai**



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# Separation Techniques In Nuclear Waste Management

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## **Separation Techniques In Nuclear Waste Management:**

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**Advanced Separation Techniques for Nuclear Fuel Reprocessing and Radioactive Waste Treatment** Kenneth L

Nash, Gregg J Lumetta, 2011-03-15 Advanced separations technology is key to closing the nuclear fuel cycle and relieving future generations from the burden of radioactive waste produced by the nuclear power industry Nuclear fuel reprocessing techniques not only allow for recycling of useful fuel components for further power generation but by also separating out the actinides lanthanides and other fission products produced by the nuclear reaction the residual radioactive waste can be minimised Indeed the future of the industry relies on the advancement of separation and transmutation technology to ensure environmental protection criticality safety and non proliferation i e security of radioactive materials by reducing their long term radiological hazard Advanced separation techniques for nuclear fuel reprocessing and radioactive waste treatment provides a comprehensive and timely reference on nuclear fuel reprocessing and radioactive waste treatment Part one covers

the fundamental chemistry engineering and safety of radioactive materials separations processes in the nuclear fuel cycle including coverage of advanced aqueous separations engineering as well as on line monitoring for process control and safeguards technology Part two critically reviews the development and application of separation and extraction processes for nuclear fuel reprocessing and radioactive waste treatment The section includes discussions of advanced PUREX processes the UREX concept fission product separations and combined systems for simultaneous radionuclide extraction Part three details emerging and innovative treatment techniques initially reviewing pyrochemical processes and engineering highly selective compounds for solvent extraction and developments in partitioning and transmutation processes that aim to close the nuclear fuel cycle The book concludes with other advanced techniques such as solid phase extraction supercritical fluid and ionic liquid extraction and biological treatment processes With its distinguished international team of contributors Advanced separation techniques for nuclear fuel reprocessing and radioactive waste treatment is a standard reference for all nuclear waste management and nuclear safety professionals radiochemists academics and researchers in this field A comprehensive and timely reference on nuclear fuel reprocessing and radioactive waste treatment Details emerging and innovative treatment techniques reviewing pyrochemical processes and engineering as well as highly selective compounds for solvent extraction Discusses the development and application of separation and extraction processes for nuclear fuel reprocessing and radioactive waste treatment

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**Chemical Separation Technologies and Related Methods of Nuclear Waste Management** Gregory R. Choppin, Mikhail Kh. Khankhasayev, 1999-02-28 Separation technologies are of crucial importance to the goal of significantly reducing the volume of high level nuclear waste thereby reducing the long term health risks to mankind International co operation including the sharing of concepts and methods as well as technology transfer is essential in accelerating research and development in the field The writers of this book are all internationally recognised experts in the field of separation technology well qualified to assess and criticize the current state of separation research as well as to

identify future opportunities for the application of separation technologies to the solution of nuclear waste management problems The major emphases in the book are research opportunities in the utilization of innovative and potentially more efficient and cost effective processes for waste processing treatment actinide speciation separation methods technological processing and environmental restoration

**Chemical Separations in Nuclear Waste Management** Gregory R. Choppin, M. Kh Khankhasaev, Hans S. Plendl, 2002 The separation of radioactive waste materials into their chemical components is at the heart of all efforts to reduce the volume of nuclear waste In Chemical Separations in Nuclear Waste Management The State of the Art and a Look to the Future the authors discuss the present state and possible future directions of separations science and technology The book presents an overview of the environmental legacy from nuclear weapons production in the United States and the former Soviet Union the magnitude of the cleanup efforts that are underway in both countries and the pivotal role played in these efforts by separations science Needs that are specific to the future development of separations science and technology are emphasized Contents 1 Overview of Chemical Separation Methods II The Environmental Legacy of the Cold War Site Cleanup in the United States III Environmental Impacts of Separation Technologies in Russia IV Non Aqueous Separation Methods V U S Russian Cooperative Program in Research and Development of Chemical Separation Technologies VI Radiation Protection Aspects of Nuclear Waste Separations VII Accelerator Driven Transmutation Technologies for Nuclear Waste Treatment

**Nuclear Wastes** National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Separations Technology and Transmutation Systems, 1996-02-23 Disposal of radioactive waste from nuclear weapons production and power generation has caused public outcry and political consternation Nuclear Wastes presents a critical review of some waste management and disposal alternatives to the current national policy of direct disposal of light water reactor spent fuel The book offers clearcut conclusions for what the nation should do today and what solutions should be explored for tomorrow The committee examines the currently used once through fuel cycle versus different alternatives of separations and transmutation technology systems by which hazardous radionuclides are converted to nuclides that are either stable or radioactive with short half lives The volume provides detailed findings and conclusions about the status and feasibility of plutonium extraction and more advanced separations technologies as well as three principal transmutation concepts for commercial reactor spent fuel The book discusses nuclear proliferation the U S nuclear regulatory structure issues of health safety and transportation the proposed sale of electrical energy as a means of paying for the transmutation system and other key issues

*New Separation Chemistry Techniques for Radioactive Waste and Other Specific Applications* Messrs L. Cecille, M. Casarci, L. Pietrelli, 2012-12-06 The purpose of this technical seminar was to evaluate the present state of the art in matter of advanced separation techniques like solvent extraction ion exchange chemical precipitation membrane and electrical processes for the treatment of radioactive liquid waste and a selection of some specific

industrial non radioactive effluents Through this initiative the organisers aimed at promoting the exchange of information between scientists from various origins universities research centres and industries while contributing to the necessary overcoming of the artificial barriers which too often limit the technology transfer between the nuclear and non nuclear sectors

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**Nuclear Waste Disposal and Utilization ; Hearing Before the Subcommittee on Science, Technology, and Space of the Committee on Commerce, Science, and Transportation, United States Senate, Ninety-fifth Congress, Second Session ... March 31, 1978** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1978

**Radioactive Waste Processing and Disposal** U.S. Nuclear Regulatory Commission, 1980

Chemical Separation Technologies and Related Methods of Nuclear Waste Management Gregory R. Choppin, Mikhail Kh. Khankhasayev, 2014-01-15

**Radioactive Waste Processing and Disposal** United States. Energy Research and Development Administration. Technical Information Center, 1975

*An Introduction to Nuclear Waste Immobilisation* Michael I. Ojovan, William E. Lee, 2013-12-03 Drawing on the authors extensive experience in the processing and disposal of waste An Introduction to Nuclear Waste Immobilisation Second Edition examines the gamut of nuclear waste issues from the natural level of radionuclides in the environment to geological disposal of waste forms and their long term behavior It covers all important aspects of processing and immobilization including nuclear decay regulations new technologies and methods Significant focus is given to the analysis of the various matrices used especially cement and glass with further discussion of other matrices such as bitumen The final chapter concentrates on the performance assessment of immobilizing materials and safety of disposal providing a full range of the resources needed to understand and correctly immobilize nuclear waste The fully revised second edition focuses on core technologies and has an integrated approach to immobilization and hazards Each chapter focuses on a different matrix used in nuclear waste immobilization cement bitumen glass and new materials Keeps the most important issues surrounding nuclear waste such as treatment schemes and technologies and disposal at the forefront

**Treatment of Industrial Effluents** Mihir Kumar Purkait, Piyal Mondal, Chang-Tang Chang, 2019-09-06 To address the issue of discharge of untreated industrial effluent in the water body causing pollution adoption of cleaner production technologies and waste minimization initiatives are being encouraged The book explains each related technology elaborately and critically analyses the same from practical application point of view In depth characterization environmental and health effects and treatment of various industrial effluents are discussed with case studies Limitations challenges and remedial actions to be taken are included at the end of each chapter Chapters are

arranged as per specific type of effluents from various industries like textile tannery leather plant and oil refinery

**Selected Water Resources Abstracts**, 1975 *Hearings, Reports and Prints of the Senate Committee on Commerce, Science, and Transportation* United States. Congress. Senate. Committee on Commerce, Science, and Transportation, 1978

**Handbook of Membrane Separations** Anil Kumar Pabby, Syed S.H. Rizvi, Ana Maria Sastre Requena, 2015-04-09 The Handbook of Membrane Separations Chemical Pharmaceutical Food and Biotechnological Applications Second Edition provides detailed information on membrane separation technologies from an international team of experts The handbook fills an important gap in the current literature by providing a comprehensive discussion of membrane application

**Chemical Pretreatment of Nuclear Waste for Disposal** E.P. Horwitz, W.W. Schulz, 2012-12-06 Chemical pretreatment of nuclear wastes refers to the sequence of separations processes used to partition such wastes into a small volume of high level waste for deep geologic disposal and a larger volume of low level waste for disposal in a near surface facility Pretreatment of nuclear wastes now stored at several U S Department of Energy sites ranges from simple solid liquid separations to more complex chemical steps such as dissolution of sludges and removal of selected radionuclides e g  $^{90}\text{Sr}$   $^{99}\text{Tc}$   $^{137}\text{Cs}$  and TRU transuranium elements The driving force for development of chemical pretreatment processes for nuclear wastes is the economic advantage of waste minimization as reflected in lower costs for near surface disposal compared to the high cost of disposing of wastes in a deep geologic repository This latter theme is expertly and authoritatively discussed in the introductory paper by J and L Bell Seven papers in this volume describe several separations processes developed or being developed to pretreat the large volume of nuclear wastes stored at the US DOE Hanford and Savannah River sites These papers include descriptions of the type and amount of important nuclear wastes stored at the Hanford and Savannah River sites as well as presently envisioned strategies for their treatment and final disposal A paper by Strachan et al discusses chemical and radiolytic mechanisms for the formation and release of potentially explosive hydrogen gas in Tank 241 SY 101 at the Hanford site

**Radioactive Waste Management**, 1981 Water Treatment Technologies for the Removal of High-Toxicity Pollutants Miroslava Václavíková, Ksenija Vitale, G.P. Gallios, Lucia Ivanicová, 2009-11-17 Water is essential for life a strategic resource for every country and population Its availability and sanitary safety is highly connected with the health and economy status of population Burden of disease due to polluted water is a major public health problem throughout the world Many pollutants in water streams have been identified as toxic and harmful to the environment and human health and among them arsenic mercury and cadmium are considered as high priority ones Providing population with safe drinking water became the priority and at the same time a big challenge for the modern society Many funding agencies in various countries have assigned a high priority to the environmental security and pollution prevention UN being one of them launched the International Decade for Action Water for life 2005 2015 Therefore today's political and social climate presents an important opportunity to implement principles of sustainable development and to preserve resources essential for future life

This process requires interdisciplinary approach it is critically important to stimulate interactions between medical doctors chemists physicist materials scientists engineers and policy makers which are already experienced in their specific areas It is also our ethical obligation to preserve existing water resources and existing eco systems enhancing their biodiversity The NATO Advanced Research Workshop Water Treatment Technologies for the Removal of High Toxicity Pollutants took place on September 13-17 2008 in Košice Slovak Republic



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