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Separation Techniques in Nuclear Waste Management

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**Thomas E. Carleson,
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Separation Techniques In Nuclear Waste Management

Anil K. Pabby, Syed S.H. Rizvi, Ana-Maria Sastre



Separation Techniques In Nuclear Waste Management:

Separation Techniques in Nuclear Waste Management (1995) Thomas E Carleson, Chien M. Wai, Nathan A. Chipman, 2017-11-22 Separation Techniques in Nuclear Waste Management is an up to date comprehensive survey of processes for separation of nuclear wastes Comprised of articles by scientists and engineers at universities and national laboratories in the U S and overseas the book provides excellent reference information for individuals working in nuclear waste management Specifically the book covers current separation technologies and techniques for waste liquid solid and gas streams that contain radionuclides Such wastes are typical of those produced as a result of nuclear materials processing and spent fuel reprocessing Chapters on promising new technologies and state of the art processes currently in use provide valuable information for design engineers as well as for research scientists The articles in Separation Techniques in Nuclear Waste Management are brief and concise designed for quick access to pertinent information Many of the contributors are leaders in their fields It is the most current survey available of the latest nuclear waste management techniques *Revival:* *Separation Techniques in Nuclear Waste Management (1995)* Thomas E. Carleson, Nathan A. Chipman, 2019-01-29 Separation Techniques in Nuclear Waste Management is an up to date comprehensive survey of processes for separation of nuclear wastes Comprised of articles by scientists and engineers at universities and national laboratories in the U S and overseas the book provides excellent reference information for individuals working in nuclear waste management Specifically the book covers current separation technologies and techniques for waste liquid solid and gas streams that contain radionuclides Such wastes are typical of those produced as a result of nuclear materials processing and spent fuel reprocessing Chapters on promising new technologies and state of the art processes currently in use provide valuable information for design engineers as well as for research scientists The articles in Separation Techniques in Nuclear Waste Management are brief and concise designed for quick access to pertinent information Many of the contributors are leaders in their fields It is the most current survey available of the latest nuclear waste management techniques **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

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. Khankhasayev, 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

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I Overview of Chemical Separation Methods

II The Environmental Legacy of the Cold War Site Cleanup in the United States

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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.

Chemical Separation Technologies and Related Methods of Nuclear Waste

Management Gregory R. Choppin, Mikhail Kh. Khankhasayev, 2014-01-15

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

Women in Chemistry 2023 Maria Rosaria Plutino, Brigida Bochicchio, Claudia Espro, Noelia Faginas Lago, Elizabeth Flórez, Junko Habasaki, Maria Manuel Marques, Christiana Mitsopoulou, Annie Ng, Laura De Luca, Daniela Iannazzo, 2024-11-12

We are delighted to present the 2023 Women in Chemistry article collection. Following the celebration of International Women's Day 2023 and the UNESCO International Day of Women and Girls in Science, Frontiers in Chemistry is proud to offer this platform to promote the work of women in this field. At present, less than 30% of researchers worldwide are women. Long-standing biases and gender stereotypes are discouraging women and girls away from science-related fields and STEM research. In particular, Science and gender equality are however essential to ensure sustainable development as highlighted by UNESCO. In order to change traditional mindsets, gender equality must be promoted, stereotypes defeated, and girls and women should be encouraged to pursue STEM careers.

New Separation Chemistry

Techniques for Radioactive Waste and Other Specific Applications Messrs L. Cecille, M. Casarici, 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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 DANESI International Atomic Energy Agency Vienna Austria 20 *Selected Water Resources Abstracts*, 1975 **Turning
 a Problem into a Resource: Remediation and Waste Management at the Sillamäe Site, Estonia** Cheryl K. Rofer, Tõnis
 Kaasik, 2012-12-06 In its present condition the dam of the tailings pond is less stable than is recommended by international
 practice A surveillance system has been established to observe both vertical and horizontal soil movement and the buildup of
 stresses in the soil The stability of the dam depends primarily on erosion by shore processes and the consequent reduction of
 the counterbalance as well as the reduction in strength of the Cambrian clay underlying the dam caused by creep and by
 water percolating to the bottom of the pond The most critical need is to enlarge the counterbalance and to stop erosion The
 surveillance system should be supplemented with a system of inclinometers Monitoring of coastal processes should be
 continued At present the hydrodynamic stress on the dam is minimal because the pebble layer allows drainage of water out
 of the tailings pond and into the sea The regulatory requirement to end emissions into the Baltic Sea must be met without
 causing undesirable hydrodynamic stresses on the dam This could be done by covering the pond and diverting precipitation
 water 9 References I Report on Topographic Geodetic Studies at the Tailings Pond 1965 No A 4 01187 in Russian 2 Report on
 Geotechnical Studies at the Tailings Pond of Plant PO Box 22 1965 No 64691 in Russian 3 Report on Topographic Geodetic
 and Geotechnical Studies at the Thennal Power Plant s Ash Impoundment 1976 No 15740 in Russian 4 Technical Report on
 Topographic Planning of the Thennal Power Plant s Ash Impoundment 1979 No **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 Hearings, Reports and Prints of the Senate Committee on Commerce, Science, and Transportation United States. Congress. Senate. Committee on Commerce, Science, and Transportation, 1978 *Radioactive Waste Processing and Disposal* U.S. Nuclear Regulatory Commission, U.S. Nuclear Regulatory Commission. Office of Nuclear Material Safety and Safeguards. Division of Waste Management and Environmental Protection, 1980 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}Sr ^{99}Tc ^{137}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 **Handbook of Membrane Separations** Anil K. Pabby, Syed S.H. Rizvi, Ana-Maria Sastre, 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 Radioactive Waste Management, 1981 Engineering Separations Unit Operations for Nuclear Processing Reid Peterson, 2019-11-15 Engineering Separations Unit Operations for Nuclear Processing provides insight into the fundamentals of separations in nuclear materials processing not covered in typical texts This book integrates fuel cycle and waste processing into a single coherent approach demonstrating that the principles from one field can and should be applied to the other It provides historical perspectives on nuclear materials processing current assessment and challenges and how past challenges were overcome It also provides understanding of the engineering principles associated with handling nuclear materials This book is aimed at researchers graduate students and professionals in the fields of chemical engineering mechanical engineering nuclear engineering and materials engineering Handbook of Radioactivity Analysis Michael F. L'Annunziata, 2012-09-01 The updated and much

expanded 3e of the Handbook of Radioactivity Analysis is an authoritative reference providing the principles practical techniques and procedures for the accurate measurement of radioactivity 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 The book describes the basic principles of radiation detection and measurement and the preparation of samples from a wide variety of matrices assists the investigator or technician in the selection and use of appropriate radiation detectors and presents state of the art methods of analysis Fundamentals of radiation properties radionuclide decay the calculations involved and methods of detection provide the basis for a thorough understanding of the analytical procedures The Handbook of Radioactivity Analysis 3e is suitable as a teaching text for university and professional training courses The only comprehensive reference that describes the principles of detection and practical applications of every type of radioactivity detector currently used The new 3e is broader in scope with revised and expanded chapters new authors and seven new chapters on Alpha Spectrometry Radionuclide Standardization Radioactive Aerosol Measurements Environmental Radioactivity Monitoring Marine Radioactivity Analysis Nuclear Forensic Analysis and Analytical Techniques in Nuclear Safeguards Discusses in detail the principles theory and practice applied to all types of radiation detection and measurement making it useful for both teaching and research

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