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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

**Gregory R. Choppin, Mikhail Kh.
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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

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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

Chemical Separation Technologies and Related Methods of Nuclear Waste Management Gregory R. Choppin, Mikhail Kh. Khankhasaev, 2014-01-15 *Handbook of Advanced Radioactive Waste Conditioning Technologies* Michael I. Ojovan, 2011-01-24 Radioactive wastes are generated from a wide range of sources including the power industry and medical and scientific research institutions presenting a range of challenges in dealing with

a diverse set of radionuclides of varying concentrations Conditioning technologies are essential for the encapsulation and immobilisation of these radioactive wastes forming the initial engineered barrier required for their transportation storage and disposal The need to ensure the long term performance of radioactive waste forms is a key driver of the development of advanced conditioning technologies The Handbook of advanced radioactive waste conditioning technologies provides a comprehensive and systematic reference on the various options available and under development for the treatment and immobilisation of radioactive wastes The book opens with an introductory chapter on radioactive waste characterisation and selection of conditioning technologies Part one reviews the main radioactive waste treatment processes and conditioning technologies including volume reduction techniques such as compaction incineration and plasma treatment as well as encapsulation methods such as cementation calcination and vitrification This coverage is extended in part two with in depth reviews of the development of advanced materials for radioactive waste conditioning including geopolymers glass and ceramic matrices for nuclear waste immobilisation and waste packages and containers for disposal Finally part three reviews the long term performance assessment and knowledge management techniques applicable to both spent nuclear fuels and solid radioactive waste forms With its distinguished international team of contributors the Handbook of advanced radioactive waste conditioning technologies is a standard reference for all radioactive waste management professionals radiochemists academics and researchers involved in the development of the nuclear fuel cycle Provides a comprehensive and systematic reference on the various options available and under development for the treatment and immobilisation of radioactive wastes Explores radioactive waste characterisation and selection of conditioning technologies including the development of advanced materials for radioactive waste conditioning Assesses the main radioactive waste treatment processes and conditioning technologies including volume reduction techniques such as compaction

Nuclear waste disposal United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1978

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