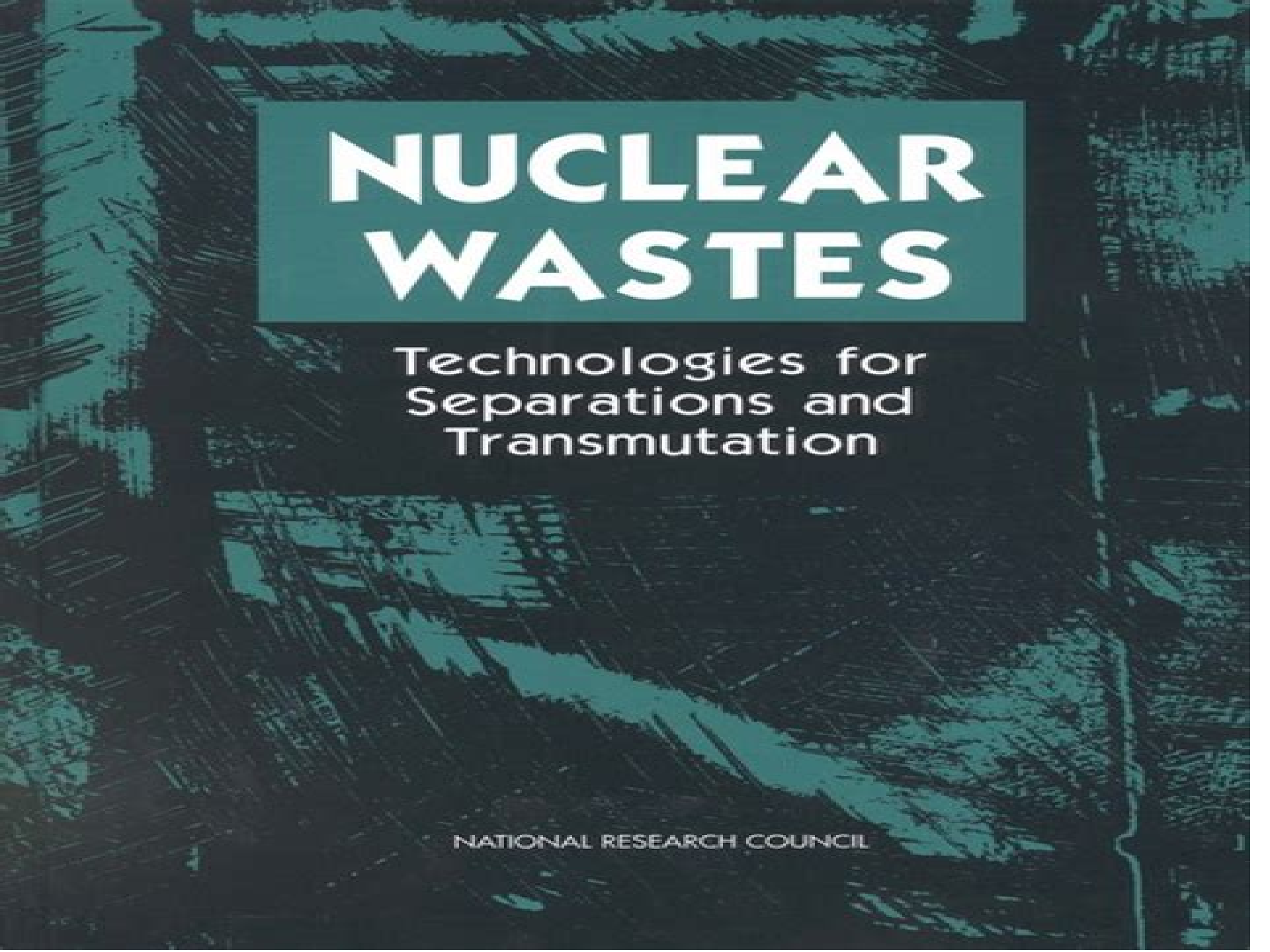




NUCLEAR WASTES

Technologies for
Separations and
Transmutation

NATIONAL RESEARCH COUNCIL

Nuclear Wastes Technologies For Separations Transmutation

**Gregory R. Choppin, M. Kh
Khankhasaev, Hans S. Plendl**



Nuclear Wastes Technologies For Separations Transmutation:

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 *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 **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 Economic Aspects of Nuclear Fuel Reprocessing United States. Congress. House. Committee on Science. Subcommittee on Energy,2006 **Hearing Before the Subcommittee on Energy Committee on Science House of Representatives , Electrometallurgical Techniques for DOE Spent Fuel Treatment** National Research Council,Commission on Physical Sciences, Mathematics, and Applications,Board on Chemical Sciences and Technology,Committee on Electrometallurgical Techniques for DOE Spent Fuel Treatment,2000-08-11 The Committee on Electrometallurgical Techniques for DOE Spent Fuel Treatment was formed in September 1994 in response to a request made to the National Research Council NRC by the U S Department of Energy DOE DOE requested an evaluation of electrometallurgical processing technology proposed by Argonne National Laboratory ANL for the treatment of DOE spent nuclear fuel Electrometallurgical treatment of spent reactor fuel involves a set of operations designed to remove the remaining uranium metal and to incorporate the radioactive nuclides into well defined and reproducible waste streams Over the course of the committee s operating life this charge has remained constant Within the framework of this overall charge the scope of the committee s work as defined by its statement of task has evolved in response to further requests from DOE as well as technical accomplishments and regulatory and legal considerations As part of its task the committee has provided periodic assessments of ANL s R D program on the electrometallurgical technology Electrometallurgical Techniques for DOE Spent Fuel Treatment assesses the viability of electrometallurgical technology for

treating DOE spent nuclear fuel and monitors the scientific and technical progress of the ANL program on electrometallurgical technology specifically within the context of ANL's demonstration project on electrometallurgical treatment of EBR II SNF. This report evaluates ANL's performance relative to the success criteria for the demonstration project which have served as the basis for judging the efficacy of using electrometallurgical technology for the treatment of EBR II spent nuclear fuel. It also addresses post demonstration activities related to ANL's electrometallurgical demonstration project and makes related recommendations in this area.

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: I 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

Geological Repository Systems for Safe Disposal of Spent Nuclear Fuels and Radioactive Waste Michael J. Apted, Joonhong Ahn, 2010-07-27. Geological disposal has been internationally adopted as the most effective approach to assure the long term safe disposition of the used nuclear fuels and radioactive waste materials produced from nuclear power generation, nuclear weapons programs, medical treatments, and industrial applications. Geological repository systems take advantage of natural geological barriers augmented with engineered barrier systems to isolate these radioactive materials from the environment and from future populations. *Geological repository systems for safe disposal of spent nuclear fuels and radioactive waste* critically reviews the state of the art, technologies, scientific methods, regulatory developments, and social engagement approaches directly related to the implementation of geological repository systems. Part one introduces geological disposal, including multiple barrier geological repositories, as well as reviewing the impact of nuclear fuel recycling practices and underground research laboratory activities on the development of disposal concepts. Part two reviews geological repository siting in different host rocks, including long term stability analysis and radionuclide transport modelling. Reviews of the range of engineered barrier systems, including waste immobilisation technologies, container materials, low pH concretes, clay based buffer and backfill materials, and barrier performance, are presented in Part three. Part four examines total system performance assessment and

safety analyses for deep geological and near surface disposal with coverage of uncertainty analysis use of expert judgement for decision making and development and use of knowledge management systems Finally Part five covers regulatory and social approaches for the establishment of geological disposal programs from the development of radiation standards and risk informed performance based regulations to environmental monitoring and social engagement in the siting and operation of repositories With its distinguished international team of contributors Geological repository systems for safe disposal of spent nuclear fuels and radioactive waste is a standard reference for all nuclear waste management and geological repository professionals and researchers Critically reviews the state of the art technologies scientific methods regulatory developments and social engagement approaches related to the implementation of geological repository systems Chapters introduce geological disposal and review the development of disposal concepts Examines long term stability analysis the range of engineered barrier systems and barrier performance

The Department of Energy's FY 1997 Budget Request for Environment, Safety and Health, Environmental Restoration and Waste Management (non-defense) and Nuclear Energy United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment,1997

Nuclear Waste Storage and Disposal Policy, and Hydroelectric License Extension and Energy Efficiency Legislation United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Energy and Air Quality,2006

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