

# Handbook Of Advanced Radioactive Waste Conditioning Technologies Pdf

**Rehab O. Abdel Rahman, Ravil Z. Rakhimov, Nailia R. Rakhimova, Michael I. Ojovan**

**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

An Introduction to Nuclear Waste Immobilisation Michael I. Ojovan, William E Lee, William E. Lee, 2010-07-07 Safety and environmental impact is of uppermost concern when dealing with the movement and storage of nuclear waste. The 20 chapters in 'An Introduction to Nuclear Waste Immobilisation' cover all important aspects of immobilisation, from nuclear decay, to regulations, to new technologies and methods. Significant focus is given to the analysis of the various matrices used in transport: cement, bitumen and glass, with the greatest attention being given to glass. The last chapter concentrates on the performance assessment of each matrix, and on new developments of ceramics and glass composite materials, thermochemical methods and in-situ metal matrix immobilisation. The book thoroughly covers all issues surrounding nuclear waste: from where to locate nuclear waste in the environment, through nuclear waste generation and sources, treatment schemes and technologies, immobilisation technologies and waste forms, disposal and long term behaviour. Particular attention is paid to internationally approved and worldwide-applied approaches and technologies.\* Each chapter focuses on a different matrix used in nuclear waste immobilisation: 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.

Waste Forms Technology and Performance National Research Council, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Waste Forms Technology and Performance, 2011-09-05 The Department of Energy's Office of Environmental Management (DOE-EM) is responsible for cleaning up radioactive waste and environmental contamination resulting from five decades of nuclear weapons production and testing. A major focus of this program involves the retrieval, processing, and immobilization of waste into stable, solid waste forms for disposal. Waste Forms Technology and Performance, a report requested by DOE-EM, examines requirements for waste form technology and performance in the cleanup program. The report provides information to DOE-EM to support improvements in methods for processing waste and selecting and fabricating waste forms. Waste Forms Technology and Performance places particular emphasis on processing technologies for high-level radioactive waste, DOE's most expensive and arguably most difficult cleanup challenge. The report's key messages are presented in ten findings and one recommendation.

*An Introduction to Nuclear Waste Immobilisation* Michael I. Ojovan, William E. Lee, Stepan N. Kalmykov, 2019-04-04 An Introduction to Nuclear Waste Immobilisation, Third Edition examines nuclear waste issues, including natural levels of radionuclides in the environment, the 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. The book has been updated to include a discussion of the disposal of nuclear waste from non-energy sources, also adding a chapter on the nuclear fuel cycle. 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 book's final chapter concentrates on the performance assessment of immobilizing materials and safety of disposal, providing a full range of resources needed to

understand and correctly immobilize nuclear waste. - Focuses on core technologies and an integrated approach to immobilization and hazards - Includes new scientific findings on wasteform performance and novel technological developments - Provides expanded coverage on decommissioning waste, including clearance of bulk materials from regulatory control and novel processing approaches - Focuses on different matrices used in nuclear waste immobilization, including cement, bitumen, glass and new materials

**Nuclear Waste Management Facilities** Rehab O Abdel Rahman, 2024-02-24 Nuclear Waste Management Facilities: Advances, Environmental Impacts, and Future Prospects examines best practices and recent trends in improving nuclear safety and reducing the negative environmental impacts of nuclear waste. With strong emphasis on regulatory requirements, this reference is essential for designing new integrated waste management practices, using lessons learned from historical and current practices. Divided into three key sections, Part One introduces the reader to the safety and environmental impacts of the nuclear industry. Part Two reviews recent technological and methodological approaches to enhancing safety, as well as reducing the carbon footprint of both individual processes and integrated facilities. Topics covered include waste processing, transmutation and decommissioning. Part Three considers potential management schemes for special waste from innovative sources, and wastes that contain emerging contaminants, including waste recycling opportunities. Nuclear Waste Management Facilities: Advances, Environmental Impacts, and Future Prospects is a crucial tool needed to implement the safest and most environmentally considerate best practices within nuclear waste management facilities. - Presents recent approaches used to assess and improve the safety and reduce the environmental impacts of nuclear waste management facilities - Offers technical guidance to support the development and defense of the environmental impact assessment (EIA) and Safety Cases to support the waste management facilities licensing throughout their lifecycles - Highlights the future perspectives for wastes produced from innovative reactors and wastes containing emerging contaminants, and recycling opportunities

**Retrieval and Conditioning of Solid Radioactive Waste from Old Facilities** International Atomic Energy Agency, 2007 This report provides information and discussion on planning, methodologies and technologies for retrieval and reconditioning of radioactive wastes recovered from old, inadequate disposal or storage facilities. The objective of such projects is to improve waste safety and security in accordance with modern requirements. Selected international experiences in waste retrieval and recovery projects are included. The report serves as a guide for storage and disposal facility personnel responsible for the organization and implementation of waste retrieval and reconditioning projects to optimize planning, selection and use of available and applicable technologies and resources.--Publisher's description.

**Strategy and Methodology for Radioactive Waste Characterization** International Atomic Energy Agency, 2007 Over the past decade significant progress has been achieved in the development of waste characterization and control procedures

and equipment as a direct response to ever-increasing requirements for quality and reliability of information on waste characteristics. Failure in control procedures at any step can have important, adverse consequences and may result in producing waste packages which are not compliant with the waste acceptance criteria for disposal, thereby adversely impacting the repository. The information and guidance included in this publication corresponds to recent achievements and reflects the optimum approaches, thereby reducing the potential for error and enhancing the quality of the end product. -- Publisher's description.

Radioactive Waste Management and Contaminated Site Clean-Up William E Lee, Michael I. Ojovan, Carol M Jantzen, 2013-10-31 Radioactive waste management and contaminated site clean-up reviews radioactive waste management processes, technologies, and international experiences. Part one explores the fundamentals of radioactive waste including sources, characterisation, and processing strategies. International safety standards, risk assessment of radioactive wastes and remediation of contaminated sites and irradiated nuclear fuel management are also reviewed. Part two highlights the current international situation across Africa, Asia, Europe, and North America. The experience in Japan, with a specific chapter on Fukushima, is also covered. Finally, part three explores the clean-up of sites contaminated by weapons programmes including the USA and former USSR. Radioactive waste management and contaminated site clean-up is a comprehensive resource for professionals, researchers, scientists and academics in radioactive waste management, governmental and other regulatory bodies and the nuclear power industry. - Explores the fundamentals of radioactive waste including sources, characterisation, and processing strategies - Reviews international safety standards, risk assessment of radioactive wastes and remediation of contaminated sites and irradiated nuclear fuel management - Highlights the current international situation across Africa, Asia, Europe, and North America specifically including a chapter on the experience in Fukushima, Japan

**Sustainability of Life Cycle Management for Nuclear Cementation-Based Technologies** Rehab O. Abdel Rahman, Michael I. Ojovan, 2021-05-25 Sustainability of Life Cycle Management for Nuclear Cementation-Based Technologies, edited by Dr. Rahman and Dr. Ojovan, presents the latest knowledge and research on the management of cementitious systems within nuclear power plants. The book covers aging, development and updates on regulatory frameworks on a global scale, the development of cementitious systems for the immobilization of problematic wastes, and the decommissioning and decontamination of complex cementitious systems. The book's editors and their team of experts combine their practical knowledge to provide the reader with a thorough understanding on the sustainability of lifecycle management of cementitious systems within the nuclear industry. Sections provide a comparative tool that presents national regulations concerning cementitious systems within nuclear power plants, check international and national evaluation results of the sustainability of different systems, help in the development of performance test procedures, and provide a guide on

aging nuclear power plants and the long-term behavior of these systems in active and passive safety environments. - Presents the latest information on the behavior of different cementitious systems used in the nuclear industry in one comprehensive resource - Includes scientific justifications of system behavior during the design, operation, maintenance and decommissioning phases - Aids the reader in the development of evaluation tests for problematic wastes

Handbook on Nuclear Law Carlton Stoiber, 2010 This handbook is a practical aid to legislative drafting that brings together, for the first time, model texts of provisions covering all aspects of nuclear law in a consolidated form. Organized along the same lines as the Handbook on Nuclear Law, published by the IAEA in 2003, and containing updated material on new legal developments, this publication represents an important companion resource for the development of new or revised nuclear legislation, as well as for instruction in the fundamentals of nuclear law. It will be particularly useful for those Member States embarking on new or expanding existing nuclear programmes.

Cementitious Materials for Nuclear Waste Immobilization Rehab O. Abdel Rahman, Ravil Z. Rakhimov, Nailia R. Rakhimova, Michael I. Ojovan, 2014-08-28 Cementitious materials are an essential part in any radioactive waste disposal facility. Conditioning processes such as cementation are used to convert waste into a stable solid form that is insoluble and will prevent dispersion to the surrounding environment. It is incredibly important to understand the long-term behavior of these materials. This book summarises approaches and current practices in use of cementitious materials for nuclear waste immobilisation. It gives a unique description of the most important aspects of cements as nuclear waste forms: starting with a description of wastes, analyzing the cementitious systems used for immobilization and describing the technologies used, and ending with analysis of cementitious waste forms and their long term behavior in an envisaged disposal environment. Extensive research has been devoted to study the feasibility of using cement or cement based materials in immobilizing and solidifying different radioactive wastes. However, these research results are scattered. This work provides the reader with both the science and technology of the immobilization process, and the cementitious materials used to immobilize nuclear waste. It summarizes current knowledge in the field, and highlights important areas that need more investigation. The chapters include: Introduction, Portland cement, Alternative cements, Cement characterization and testing, Radioactive waste cementation, Waste cementation technology, Cementitious wasteform durability and performance assessment.

Handling and Processing of Radioactive Waste from Nuclear Applications International Atomic Energy Agency, 2001 Provides detailed information on the handling, processing and storage techniques most widely used and recommended for waste from non-fuel-cycle activities. The report was designed to meet the needs of developing countries by focusing on the most simple, affordable and reliable techniques and discussing their advantages and limitations.

**Computer Modeling Applications for Environmental Engineers** Isam Mohammed Abdel-Magid Ahmed, Mohammed Isam Mohammed Abdel-Magid, 2017-07-06 Computer Modeling Applications for Environmental Engineers in its second

edition incorporates changes and introduces new concepts using Visual Basic.NET, a programming language chosen for its ease of comprehensive usage. This book offers a complete understanding of the basic principles of environmental engineering and integrates new sections that address Noise Pollution and Abatement and municipal solid-waste problem solving, financing of waste facilities, and the engineering of treatment methods that address sanitary landfill, biochemical processes, and combustion and energy recovery. Its practical approach serves to aid in the teaching of environmental engineering unit operations and processes design and demonstrates effective problem-solving practices that facilitate self-teaching. A vital reference for students and professional sanitary and environmental engineers this work also serves as a stand-alone problem-solving text with well-defined, real-work examples and explanations.

Innovative Waste Treatment and Conditioning Technologies at Nuclear Power Plants. IAEA TECDOC Series International Atomic Energy Agency, 2006

**Nuclear Waste Conditioning** France. Commissariat à l'énergie atomique (CEA), 2009

*Cementitious Materials for Nuclear Waste Immobilization* Rehab O. Abdel Rahman, Ravil Z. Rakhimov, Nailia R. Rakhimova, Michael I. Ojovan, 2014-11-17 Cementitious materials are an essential part in any radioactive waste disposal facility. Conditioning processes such as cementation are used to convert waste into a stable solid form that is insoluble and will prevent dispersion to the surrounding environment. It is incredibly important to understand the long-term behavior of these materials. This book summarises approaches and current practices in use of cementitious materials for nuclear waste immobilisation. It gives a unique description of the most important aspects of cements as nuclear waste forms: starting with a description of wastes, analyzing the cementitious systems used for immobilization and describing the technologies used, and ending with analysis of cementitious waste forms and their long term behavior in an envisaged disposal environment. Extensive research has been devoted to study the feasibility of using cement or cement based materials in immobilizing and solidifying different radioactive wastes. However, these research results are scattered. This work provides the reader with both the science and technology of the immobilization process, and the cementitious materials used to immobilize nuclear waste. It summarizes current knowledge in the field, and highlights important areas that need more investigation. The chapters include: Introduction, Portland cement, Alternative cements, Cement characterization and testing, Radioactive waste cementation, Waste cementation technology, Cementitious wasteform durability and performance assessment.

**Handbook Of Environment And Waste Management - Volume 2: Land And Groundwater Pollution Control**

Yung-tse Hung, Lawrence K Wang, Nazih K Shammass, 2013-12-24 The Handbook of Environment and Waste Management, Volume 2, Land and Groundwater Pollution Control, is a comprehensive compilation of topics that are at the forefront of many of the technical advances and practices in solid waste management and groundwater pollution control. These include biosolids management, landfill for solid waste disposal, landfill liners, beneficial reuse of waste products, municipal solid

waste recovery and recycling and groundwater remediation. Internationally recognized authorities in the field of environment and waste management contribute chapters in their areas of expertise. This handbook is an essential source of reference for professionals and researchers in the areas of solid waste management and groundwater pollution control, and as a text for advanced undergraduate and graduate courses in these fields.

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**Studies of Advanced Reactor Technology Options for Effective Incineration of Radioactive Waste**, 2007

**Methods for the Minimization of Radioactive Waste from Decontamination and Decommissioning of Nuclear Facilities** International Atomic Energy Agency, 2001 Simple text and photographs introduce the life of George Washington Carver.

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