



TECHNICAL REPORTS SERIES No. **198**

Guide to the Safe Handling of Radioactive Wastes at Nuclear Power Plants



INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1980

Techniques For The Solidification Of Highlevel Wastes
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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

Techniques for the solidification of high-level wastes, 1977 *Technical Reports Series*, 1992 **EPA 520/4**, 1977 **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 consider 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 *Design and Operation of High Level Waste Vitrification and Storage Facilities* International Atomic Energy Agency,1992 This report gives an up to date review of high level waste vitrification and storage facilities currently in an advanced stage of implementation

Radiotracer Studies of Interfaces G. Horanyi,2004-09-18 Radiotracer Studies of Interfaces presents a selection of examples illustrating the application of radiotracer studies for different types of interfaces The value of radiotracer studies in fields such as food chemistry corrosion of metals neurochemistry biology and catalysis is revealed Separate chapters are devoted to the environmental problems connected with nuclear reactors and with the nuclear industry in general The book also presents efforts to minimize and avoid the risk of radioactive contamination in the environment by describing new approaches to the problem Demonstrates the use of radiotracers Contains a detailed discussion of double layer phenomena Separate chapters are devoted to the most important branches of science where radiotracer study of interfacial phenomena plays an important role International Atomic Energy Agency Publications: Catalogue International Atomic Energy Agency,1986 *International Atomic Energy Agency Publications* International Atomic Energy Agency,1985 **Technical Support of Standards for High-level Radioactive Waste Management: Task B report, Engineering controls** Arthur D. Little, Inc,1979 Nuclear Science Abstracts ,1975 **Handling and Storage of High-level Radioactive Liquid Wastes Requiring Cooling** International Atomic Energy Agency,1979 **An Annotated Bibliography for the Design of Waste Packages for Geologic Disposal of Spent Fuel and High-level Waste** K. J. Wurm,1982 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 **Handling and Storage of Conditioned High-level Wastes** International Atomic Energy Agency,1983 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration. Technical Information Center,1977 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration,1977 **International**

Atomic Energy Agency Bulletin ,1986 *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 *Concepts and Examples of Safety Analyses for Radioactive Waste Repositories in Continental Geological Formations* International Atomic Energy Agency, 1983

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