



# Handbook of advanced radioactive waste conditioning technologies

Edited by Michael R. Cooper

# Handbook Of Advanced Radioactive Waste Conditioning Technologies

**Rehab O. Abdel Rahman, Michael I.  
Ojovan**



## **Handbook Of Advanced Radioactive Waste Conditioning Technologies:**

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

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 An Introduction to Nuclear Waste Immobilisation Michael I.

Ojovan,William E. Lee,2013-12-03 Drawing on the authors extensive experience in the processing and disposal of waste An Introduction to Nuclear Waste Immobilisation Second Edition examines the gamut of nuclear waste issues from the natural level of radionuclides in the environment to 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 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 final chapter concentrates on the performance assessment of immobilizing materials and safety of disposal providing a full range of the resources needed to understand and correctly immobilize nuclear waste The fully revised second edition focuses on core technologies and has an integrated approach to immobilization and hazards Each chapter focuses on a different matrix used in nuclear waste immobilization 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 **The Biogas Handbook** Arthur Wellinger,J. Patrick Murphy,David Baxter,2013-02-19 The biogas handbook Science production and applications provides a comprehensive and systematic guide to the development and deployment of biogas supply chains and technology **Advances in Materials Science for Environmental and Energy Technologies III** Tatsuki Ohji,Josef Matyas,Navin Jose Manjooran,Gary Pickrell,Andrei Jitianu,2014-10-10 This proceedings contains a

collection of 26 papers from the following six 2013 Materials Science and Technology MS T 13 symposia Green Technologies for Materials Manufacturing and Processing V Materials Development and Degradation Management in Nuclear Applications Materials Issues in Nuclear Waste Management in the 21st Century Energy Storage III Materials Systems and Applications Nanotechnology for Energy Healthcare and Industry Hybrid Organic Inorganic Materials for Alternative Energy

*Reprocessing and Recycling of Spent Nuclear Fuel* Robin Taylor, 2015-04-18 Reprocessing and Recycling of Spent Nuclear Fuel presents an authoritative overview of spent fuel reprocessing considering future prospects for advanced closed fuel cycles Part One introduces the recycling and reprocessing of spent nuclear fuel reviewing past and current technologies the possible implications of Generation IV nuclear reactors and associated safety and security issues Parts Two and Three focus on aqueous based reprocessing methods and pyrochemical methods while final chapters consider the cross cutting aspects of engineering and process chemistry and the potential for implementation of advanced closed fuel cycles in different parts of the world Expert introduction to the recycling and reprocessing of spent nuclear fuel Detailed overview of past and current technologies the possible implications of Generation IV nuclear reactors and associated safety and security issues A lucid exploration of aqueous based reprocessing methods and pyrochemical methods Structural Materials for Generation IV Nuclear Reactors Pascal Yvon, 2016-08-27 Operating at a high level of fuel efficiency safety proliferation resistance sustainability and cost generation IV nuclear reactors promise enhanced features to an energy resource which is already seen as an outstanding source of reliable base load power The performance and reliability of materials when subjected to the higher neutron doses and extremely corrosive higher temperature environments that will be found in generation IV nuclear reactors are essential areas of study as key considerations for the successful development of generation IV reactors are suitable structural materials for both in core and out of core applications Structural Materials for Generation IV Nuclear Reactors explores the current state of the art in these areas Part One reviews the materials requirements and challenges in generation IV systems Part Two presents the core materials with chapters on irradiation resistant austenitic steels ODS FM steels and refractory metals amongst others Part Three looks at out of core materials Structural Materials for Generation IV Nuclear Reactors is an essential reference text for professional scientists engineers and postgraduate researchers involved in the development of generation IV nuclear reactors Introduces the higher neutron doses and extremely corrosive higher temperature environments that will be found in generation IV nuclear reactors and implications for structural materials Contains chapters on the key core and out of core materials from steels to advanced micro laminates Written by an expert in that particular area **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

*Renewable Heating and Cooling* Gerhard Stryi-Hipp, 2015-11-20 Renewable Heating and Cooling Technologies and Applications presents the latest information on the generation of heat for industry and domestic purposes an area where a significant proportion of total energy is consumed In Europe this figure is estimated to be almost 50% with the majority of heat generated by the consumption of fossil fuels As there is a pressing need to increase the uptake of renewable heating and cooling RHC to reduce greenhouse gas emissions this book provides a comprehensive and authoritative overview on the topic Part One introduces key RHC technologies and discusses RHC in the context of global heating and cooling demand featuring chapters on solar thermal process heat generation deep geothermal energy and solar cooling technologies Part Two explores enabling technologies special applications and case studies with detailed coverage of thermal energy storage hybrid systems and renewable heating for RHC along with case studies in China and Sweden Users will find this book to be an essential resource for lead engineers and engineering consultants working on renewable heating and cooling in engineering companies as well as academics and R D professionals in private research institutes who have a particular interest in the subject matter Includes coverage on biomass solar thermal and geothermal renewable heating and cooling technologies Features chapters on solar thermal process heat generation deep geothermal energy solar cooling technologies and special applications Presents case studies with detailed coverage of thermal energy storage hybrid systems and renewable heating for RHC Explores enabling technologies and special applications

*Offshore Wind Farms* Chong Ng, Li Ran, 2016-03-03 Offshore Wind Farms Technologies Design and Operation provides the latest information on offshore wind energy one of Europe's most promising and quickly maturing industries and a potentially huge untapped renewable energy source which could contribute significantly towards EU 2020 renewable energy generation targets It has been estimated that by 2030 Europe could have 150GW of offshore wind energy capacity meeting 14% of our power demand Offshore Wind Farms Technologies Design and Operation provides a comprehensive overview of the emerging technologies

design and operation of offshore wind farms Part One introduces offshore wind energy as well as offshore wind turbine siting with expert analysis of economics wind resources and remote sensing technologies The second section provides an overview of offshore wind turbine materials and design while part three outlines the integration of wind farms into power grids with insights to cabling and energy storage The final section of the book details the installation and operation of offshore wind farms with chapters on condition monitoring and health and safety amongst others Provides an in depth multi contributor comprehensive overview of offshore technologies including design monitoring and operation Edited by respected and leading experts in the field with experience in both academia and industry Covers a highly relevant and important topic given the great potential of offshore wind power in contributing significantly to EU 20 20 20 renewable energy targets **Organic**

**Rankine Cycle (ORC) Power Systems** Ennio Macchi,Marco Astolfi,2016-08-24 Organic Rankine Cycle ORC Power Systems Technologies and Applications provides a systematic and detailed description of organic Rankine cycle technologies and the way they are increasingly of interest for cost effective sustainable energy generation Popular applications include cogeneration from biomass and electricity generation from geothermal reservoirs and concentrating solar power installations as well as waste heat recovery from gas turbines internal combustion engines and medium and low temperature industrial processes With hundreds of ORC power systems already in operation and the market growing at a fast pace this is an active and engaging area of scientific research and technical development The book is structured in three main parts i Introduction to ORC Power Systems Design and Optimization ii ORC Plant Components and iii Fields of Application Provides a thorough introduction to ORC power systems Contains detailed chapters on ORC plant components Includes a section focusing on ORC design and optimization Reviews key applications of ORC technologies including cogeneration from biomass electricity generation from geothermal reservoirs and concentrating solar power installations waste heat recovery from gas turbines internal combustion engines and medium and low temperature industrial processes Various chapters are authored by well known specialists from Academia and ORC manufacturers Solubility Phenomena in The Context of Nuclear Waste

Disposal Xavier Gaona,Sarah Saslow,Hye-Ryun Cho,Taishi Kobayashi,Bernd Grambow,2023-12-13 Safety concepts regarding nuclear waste disposal in underground repositories generally rely on a combination of engineered and geological barriers that minimize potential radionuclide release out of the containment providing rock zone and transport through the biosphere The presence of water however may alter the engineered barrier system dissolve radionuclides and facilitate radionuclide transport that over time may permeate the biosphere So while barrier systems aim to prevent or hinder water from contacting the waste the possible intrusion of aqueous solutions must be considered for several safety case scenarios impacted by the long term evolution of a repository Dissolution and solubility phenomena thus arise as important processes controlling the chemical behaviour of radionuclides and other key materials of relevance in the context of such repositories and their safety assessments The solubility and aqueous speciation of radionuclides is of particular interest as they provide

upper limits of water transportable concentrations of radionuclides Solubility phenomena of radioactive and other gases in water provide important information on gas transport and pressure build up Moreover solubility assessments offer insight into time independent constraints on the evolution of the disposal system Particularly important in this regard is the geochemical modelling of radionuclide behaviour in the engineered barrier system as well as in natural aquatic systems along the transport path of radionuclides to the biosphere The obtained information provides valuable inputs that appropriately constrain safety analyses of nuclear waste disposal

#### **Gasification for Synthetic Fuel Production**

R Luque,J Speight,2014-08-29 Gasification involves the conversion of carbon sources without combustion to syngas which can be used as a fuel itself or further processed to synthetic fuels The technology provides a potentially more efficient means of energy generation than direct combustion This book provides an overview of gasification science and engineering and the production of synthetic fuels by gasification from a variety of feedstocks Part one introduces gasification reviewing the scientific basis of the process and gasification engineering Part two then addresses gasification and synthetic fuel production processes Finally chapters in part three outline the different applications of gasification with chapters on the conversion of different types of feedstock Examines the design of gasifiers the preparation of feedstocks and the economic environmental and policy issues related to gasification Reviews gasification processes for liquid fuel production Outlines the different applications of gasification technology

#### **Advances in Thermal Energy Storage Systems**

Luisa F. Cabeza,2014-10-31 Thermal energy storage TES technologies store thermal energy both heat and cold for later use as required rather than at the time of production They are therefore important counterparts to various intermittent renewable energy generation methods and also provide a way of valorising waste process heat and reducing the energy demand of buildings This book provides an authoritative overview of this key area Part one reviews sensible heat storage technologies Part two covers latent and thermochemical heat storage respectively The final section addresses applications in heating and energy systems Reviews sensible heat storage technologies including the use of water molten salts concrete and boreholes Describes latent heat storage systems and thermochemical heat storage Includes information on the monitoring and control of thermal energy storage systems and considers their applications in residential buildings power plants and industry

#### *Hospital Waste Management and Toxicity Evaluation* Kulkarni, Shrikaant,Haghi, A.K.,Egbuchunam, Theresa

Obiajulu,Kakodkar, Shruti,2025-01-09 A host of activities in the healthcare industry generates substantive hospital waste However its unsound disposal is a grave concern and poses an alarming threat to the environment and health of humanity due to not only the generation of magnanimous amounts of waste but also the non biodegradability of byproducts formed The improper disposal of unused medicines and hospital waste is responsible for ecological degradation and growing concern at both local and global levels Hospital Waste Management and Toxicity Evaluation explores the best practices in hospital waste management focusing on sustainable solutions for waste collection segregation storage and disposal It emphasized practical



strategies for reducing the impact of pharmaceutical and medical waste aiming to promote sustainable and safe waste management in healthcare settings Covering topics such as antibiotic resistant isolates machine learning ML and radioactive waste management this book is an excellent resource for academicians researchers students medical professionals practitioners pharmacists clinicians and more *Handbook of Generation IV Nuclear Reactors* Igor Pioro,2016-06-09

*Handbook of Generation IV Nuclear Reactors* presents information on the current fleet of Nuclear Power Plants NPPs with water cooled reactors Generation III and III 96% of 430 power reactors in the world that have relatively low thermal efficiencies within the range of 32 36% compared to those of modern advanced thermal power plants combined cycle gas fired power plants up to 62% and supercritical pressure coal fired power plants up to 55% Moreover thermal efficiency of the current fleet of NPPs with water cooled reactors cannot be increased significantly without completely different innovative designs which are Generation IV reactors Nuclear power is vital for generating electrical energy without carbon emissions Complete with the latest research development and design and written by an international team of experts this handbook is completely dedicated to Generation IV reactors Presents the first comprehensive handbook dedicated entirely to generation IV nuclear reactors Reviews the latest trends and developments Complete with the latest research development and design information in generation IV nuclear reactors Written by an international team of experts in the field [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 *Small Modular Reactors* Daniel T Ingersoll,2015-11-20

There is currently significant interest in the development of small modular reactors SMRs for the generation of both electricity and process heat SMRs offer potential benefits in terms of better affordability and enhanced safety and can also be sited more flexibly

than traditional nuclear plants Small Modular Reactors Nuclear Power Fad or Future reviews SMR features promises and problems also discussing what lies ahead for reactors of this type The book is organized into three major parts with the first part focused on the role of energy especially nuclear energy for global development It also provides a brief history of SMRs The second major part presents basic nuclear power plant terminology and then discusses in depth the attributes of SMRs that distinguish them from traditional nuclear plants The third and final major section discusses the current interest in SMRs from a customer s perspective and delineates several remaining hurdles that must be addressed to achieve wide spread SMR deployment Provides decision makers in governments business and research with the needed background on small nuclear power and an overview of the current situation Presents a balanced discussion of the many advantages of SMRs and the challenges they face Written by a highly respected expert in the nuclear industry

**The Performance of Photovoltaic (PV) Systems** Nicola Pearsall,2016-10-15 The Performance of Photovoltaic PV Systems Modelling Measurement and Assessment explores the system lifetime of a PV system and the energy output of the system over that lifetime The book concentrates on the prediction measurement and assessment of the performance of PV systems allowing the reader to obtain a thorough understanding of the performance issues and progress that has been made in optimizing system performance Provides unique insights into the performance of photovoltaic systems Includes comprehensive and systematic coverage of a fascinating area in energy Written by an expert team of authors and a respected editor

**Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide (CO<sub>2</sub>) Capture** Paul Fennell,Ben Anthony,2015-05-21 Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide CO<sub>2</sub> Capture reviews the fundamental principles systems oxygen carriers and carbon dioxide carriers relevant to chemical looping and combustion Chapters review the market development economics and deployment of these systems also providing detailed information on the variety of materials and processes that will help to shape the future of CO<sub>2</sub> capture ready power plants Reviews the fundamental principles systems oxygen carriers and carbon dioxide carriers relevant to calcium and chemical looping Provides a lucid explanation of advanced concepts and developments in calcium and chemical looping high pressure systems and alternative CO<sub>2</sub> carriers Presents information on the market development economics and deployment of these systems

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