



# Handbook of advanced radioactive waste conditioning technologies

Edited by Michael I. Ojovan

# Handbook Of Advanced Radioactive Waste Conditioning Technologies Woodhead Publishing Series In Energy

**J Spring**



## **Handbook Of Advanced Radioactive Waste Conditioning Technologies Woodhead Publishing Series In Energy:**

*Handbook of Advanced Radioactive Waste Conditioning Technologies* Michael I. Ojovan, 2017-11-13 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

**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

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**The Biogas Handbook** Arthur Wellinger, Jerry D Murphy, David Baxter, 2013-02-19 With pressure increasing to utilise wastes and residues effectively and sustainably the production of biogas represents one of the most important routes towards reaching national and international renewable energy targets The biogas handbook Science production and applications provides a comprehensive and systematic guide to the development and deployment of biogas supply chains and technology Following a concise overview of biogas as an energy option part one explores biomass resources and fundamental science and engineering of biogas production including feedstock characterisation storage and pre treatment and yield optimisation Plant design engineering process optimisation and digestate utilisation are the focus of part two Topics considered include the engineering and process control of biogas plants methane emissions in biogas production and biogas digestate quality utilisation and land application Finally part three discusses international experience and best practice in biogas utilisation Biogas cleaning and upgrading to biomethane biomethane use as transport fuel and the generation of heat and power from biogas for stationery applications are all discussed The book concludes with a review of market development and biomethane certification schemes With its distinguished editors and international team of expert contributors The biogas handbook Science production and applications is a practical reference to biogas technology for process engineers manufacturers industrial chemists and biochemists scientists researchers and academics working in this field Provides a concise overview of biogas as an energy option Explores biomass resources for production Examines plant design and engineering and process optimisation

**Handbook of Membrane Reactors** Angelo Basile, 2013-02-08 Membrane reactors are increasingly replacing conventional separation

process and conversion technologies across a wide range of applications Exploiting advanced membrane materials they offer enhanced efficiency are very adaptable and have great economic potential There has therefore been increasing interest in membrane reactors from both the scientific and industrial communities stimulating research and development The two volumes of the Handbook of membrane reactors draw on this research to provide an authoritative review of this important field Volume 1 explores fundamental materials science design and optimisation beginning with a review of polymeric dense metallic and composite membranes for membrane reactors in part one Polymeric and nanocomposite membranes for membrane reactors inorganic membrane reactors for hydrogen production palladium based composite membranes and alternatives to palladium based membranes for hydrogen separation in membrane reactors are all discussed Part two goes on to investigate zeolite ceramic and carbon membranes and catalysts for membrane reactors in more depth Finally part three explores membrane reactor modelling simulation and optimisation including the use of mathematical modelling computational fluid dynamics artificial neural networks and non equilibrium thermodynamics to analyse varied aspects of membrane reactor design and production enhancement With its distinguished editor and international team of expert contributors the two volumes of the Handbook of membrane reactors provide an authoritative guide for membrane reactor researchers and materials scientists chemical and biochemical manufacturers industrial separations and process engineers and academics in this field Considers polymeric dense metallic and composite membranes for membrane reactors Discusses ceramic and carbon for membrane reactors in detail Reactor modelling simulation and optimisation is also discussed

Safe and Secure Transport and Storage of Radioactive Materials Ken Sorenson, 2015-07-24 Safe and Secure Transport and Storage of Radioactive Materials reviews best practice and emerging techniques in this area The transport of radioactive materials is an essential operation in the nuclear industry without which the generation of nuclear power would not be possible Radioactive materials also often need to be stored pending use treatment or disposal Given the nature of radioactive materials it is paramount that transport and storage methods are both safe and secure A vital guide for managers and general managers in the nuclear power and transport industries this book covers topics including package design safety security mechanical performance radiation protection and shielding thermal performance uranium ore fresh fuel uranium hexafluoride MOX plutonium and more Uniquely comprehensive and systematic coverage of the packaging transport and storage of radioactive materials Section devoted to spent nuclear fuels Expert team of authors and editors

**Environmental Remediation and Restoration of Contaminated Nuclear and NORM Sites** L van Velzen, 2015-02-02 Nuclear sites become contaminated with radionuclides due to accidents and activities carried out without due consideration for the environment Naturally occurring radioactive materials NORM released by industrial processes such as coal power production and fertilizer manufacture may also require clean up Environmental remediation and restoration aim to reduce exposure to radiation from contaminated soil or groundwater This book provides a comprehensive overview of this area Part

1 provides an introduction to the different types of contaminated site and their characteristics Part 2 addresses environmental restoration frameworks and processes Part 3 then reviews different remediation techniques and methods of waste disposal Explores types and characteristics of contaminated nuclear and NORM sites Provides an in depth guide to environmental restoration frameworks and processes including stakeholder involvement risk assessment and cost benefit analysis in the remediation and restoration of contaminated nuclear and NORM sites Offers coverage of remediation techniques and waste disposal from electrokinetic remediation to in situ and ex situ bioremediation of radionuclides contaminated soils

**The Coal Handbook: Towards Cleaner Production** Dave Osborne, 2013-10-31 Coal is an important fossil fuel resource for many nations due to its large remaining resources relatively low production and processing cost and potential high energy intensity Certain issues surround its utilisation however including emissions of pollutants and growing concern about climate change The coal handbook Towards cleaner production Volume 1 reviews the coal production supply chain from analysis to extraction and distribution Part one explores coal characterisation and introduces the industrial use of coal as well as coal formation petrography reserves sampling and analysis Part two moves on to review coal extraction and preparation Chapters highlight advances in coal mining technology underground coal gas extraction coal sizing comminution and cleaning and solid liquid separation technologies for coal Further chapters focus on economic factors affecting coal preparation post treatment of coal coal tailings treatment and the optimisation simulation and control of coal preparation plants Finally part three considers aspects of the coal supply chain including the management approach and individual functions such as coal blending and homogenisation transportation and handling along the entire supply chain With its distinguished editor and international team of expert contributors The coal handbook Volumes 1 and 2 is a comprehensive and invaluable resource for professionals in the coal mining preparation and utilisation industry those in the power sector including plant operators and engineers and researchers and academics interested in this field Reviews the coal production supply chain from analysis to extraction and distribution Explores coal characterisation formation petrography reserves sampling and analysis Examines coal extraction and preparation and highlights advances in coal mining technology underground coal gas extraction coal sizing comminution and cleaning and solid liquid separation technologies

**Advanced Membrane Science and Technology for Sustainable Energy and Environmental Applications** Angelo Basile, Suzana Pereira Nunes, 2011-08-24 Membrane materials allow for the selective separation of gas and vapour and for ion transport Materials research and development continues to drive improvements in the design manufacture and integration of membrane technologies as critical components in both sustainable energy and clean industry applications Membrane utilisation offers process simplification and intensification in industry providing low cost and efficient and reliable operation and contributing towards emissions reductions and energy security Advanced membrane science and technology for sustainable energy and environmental applications presents a comprehensive review of membrane utilisation and

integration within energy and environmental industries Part one introduces the topic of membrane science and engineering from the fundamentals of membrane processes and separation to membrane characterization and economic analysis Part two focuses on membrane utilisation for carbon dioxide CO<sub>2</sub> capture in coal and gas power plants including pre and post combustion and oxygen transport technologies Part three reviews membranes for the petrochemical industry with chapters covering hydrocarbon fuel natural gas and synthesis gas processing as well as advanced biofuels production Part four covers membranes for alternative energy applications and energy storage such as membrane technology for redox and lithium batteries fuel cells and hydrogen production Finally part five discusses membranes utilisation in industrial and environmental applications including microfiltration ultrafiltration and forward osmosis as well as water wastewater and nuclear power applications With its distinguished editors and team of expert contributors Advanced membrane science and technology for sustainable energy and environmental applications is an essential reference for membrane and materials engineers and manufacturers as well as researchers and academics interested in this field Presents a comprehensive review of membrane science and technology focusing on developments and applications in sustainable energy and clean industry Discusses the fundamentals of membrane processes and separation and membrane characterization and economic analysis Addresses the key issues of membrane utilisation in coal and gas power plants and the petrochemical industry the use of membranes for alternative energy applications and membrane utilisation in industrial and environmental applications

*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

**The 2011 Fukushima Nuclear Power Plant Accident** Yotaro Hatamura, Seiji Abe, Masao Fuchigami, Naoto Kasahara, Kenji Iino, 2014-11-28 In March 2011 the Fukushima nuclear power plant NPP in

Japan was hit by an earthquake and subsequent tsunami which resulted in the release of significant amounts of radioactive material. The incident led to the suspension of nuclear programmes by a number of countries. This book provides a definitive account of the accident. Outlines the main sequence of events of the 2011 Fukushima nuclear power plant accident, considers the responses of central and local government and evaluates the response of the plant owner TEPCO. Describes and assesses the effectiveness of the evacuation process and subsequent decontamination of the site and local area. Offers recommendations for improving the safe design and operation of nuclear power plants and considers the future of the Fukushima plant and nuclear power generation in Japan.

**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. 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.

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

**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 2020 renewable energy targets

**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     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     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     High Temperature Superconductors (HTS) for Energy Applications Ziad Melhem, 2011-12-21 High temperature superconductors HTS offer many advantages through their application in electrical systems including high efficiency performance and high throughput with low electrical losses While cryogenic cooling and precision materials manufacture is required to achieve this goal cost reductions without significant performance loss are being achieved through the advanced design and development of HTS wires cables and magnets along with improvements in manufacturing methods This book explores the fundamental principles design and development of HTS materials and their practical applications in

energy systems Part one describes the fundamental science engineering and development of particular HTS components such as wires and tapes cables coils and magnets and discusses the cryogenics and electromagnetic modelling of HTS systems and materials Part two reviews the types of energy applications that HTS materials are used in including fault current limiters power cables and energy storage as well as their application in rotating machinery for improved electrical efficiencies and in fusion technologies and accelerator systems where HTS magnets are becoming essential enabling technologies With its distinguished editor and international team of expert contributors High temperature superconductors HTS for energy applications is an invaluable reference tool for anyone involved or interested in HTS materials and their application in energy systems including materials scientists and electrical engineers energy consultants HTS materials manufacturers and designers and researchers and academics in this field Discusses fundamental issues and developments of particular HTS components Comprehensively reviews the design and development of HTS materials and then applications in energy systems Reviews the use of HTS materials and cabling transmissions fault alignment limiters energy storage generators and motors fusion and accelerator

#### **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

#### **Biodiesel Science and Technology**

Jan C.J. Bart, N Palmeri, Stefano Cavallaro, 2010-02-19 Biodiesel production is a rapidly advancing field worldwide with biodiesel fuel increasingly being used in compression ignition diesel engines Biodiesel has been extensively studied and utilised in developed countries and it is increasingly being introduced in developing countries especially in regions with high potential for sustainable biodiesel production Initial sections systematically review feedstock resources and vegetable oil formulations including the economics of vegetable oil conversion to diesel fuel with additional coverage of emerging energy crops for biodiesel production Further

sections review the transesterification process including chemical catalysis and biochemical biocatalysis processes with extended coverage of industrial process technology and control methods and standards for biodiesel fuel quality assurance Final chapters cover the sustainability performance and environmental issues of biodiesel production as well as routes to improve glycerol by product usage and the development of next generation products Biodiesel science and technology From soil to oil provides a comprehensive reference to fuel engineers researchers and academics on the technological developments involved in improving biodiesel quality and production capacity that are crucial to the future of the industry Evaluates biodiesel as a renewable energy source and documents global biodiesel development The outlook for biodiesel science and technology is presented exploring the challenges faced by the global diesel industry Reviews feedstock resources and vegetable oil formation including emerging crops and the agronomic potential of underexploited oil crops

Delve into the emotional tapestry woven by Emotional Journey with in Dive into the Emotion of **Handbook Of Advanced Radioactive Waste Conditioning Technologies Woodhead Publishing Series In Energy** . This ebook, available for download in a PDF format ( \*), is more than just words on a page; it's a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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