

**Radioactive Waste:
Advanced Management
Methods for Medium Active
Liquid Waste (Radioactive
Waste Management Series)**

Carley-Macaulay, K W

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Radioactive Waste Advanced Management Methods For Mediumactive Liquid Waste

K W Carley-Macaulay



Radioactive Waste Advanced Management Methods For Mediumactive Liquid Waste:

Radioactive Waste K W Carley-Macauly,1981-07-15 **RADIOACTIVE WASTE : ADVANCED MANAGEMENT METHODS FOR MEDIUM ACTIVE LIQUID WASTE.** ,1981 *New Separation Chemistry Techniques for Radioactive Waste and Other Specific Applications* Messrs L. Cecille,M. Casarci,L. Pietrelli,2012-12-06 The purpose of this technical seminar was to evaluate the present state of the art in matter of advanced separation techniques like solvent extraction ion exchange chemical precipitation membrane and electrical processes for the treatment of radioactive liquid waste and a selection of some specific industrial non radioactive effluents Through this initiative the organisers aimed at promoting the exchange of information between scientists from various origins universities research centres and industries while contributing to the necessary overcoming of the artificial barriers which too often limit the technology transfer between the nuclear and non nuclear sectors VII CONTENTS PREFACE V ABBREVIATIONS xiv OPENING SESSION WELCOME ADDRESS C MANCINI ENEA 3 OPENING ADDRESS S FINZI CEC 7 AREAS WHERE ADVANCED SEPARATION TECHNIQUES ARE DESIRABLE G GROSSI ENEA L CECILLE CEC 11 REVIEW OF NEW EXTRACTANTS POTENTIALLY APPLICABLE TO THE PROCESSING OF RADIOACTIVE LIQUID WASTES Summary P R DANESI International Atomic Energy Agency Vienna Austria 20 **Chemical Separation Technologies and Related Methods of Nuclear Waste Management** Gregory R. Choppin,Mikhail Kh. Khankhasayev,1999-02-28 Separation technologies are of crucial importance to the goal of significantly reducing the volume of high level nuclear waste thereby reducing the long term health risks to mankind International co operation including the sharing of concepts and methods as well as technology transfer is essential in accelerating research and development in the field The writers of this book are all internationally recognised experts in the field of separation technology well qualified to assess and criticize the current state of separation research as well as to identify future opportunities for the application of separation technologies to the solution of nuclear waste management problems The major emphases in the book are research opportunities in the utilization of innovative and potentially more efficient and cost effective processes for waste processing treatment actinide speciation separation methods technological processing and environmental restoration **Testing, Evaluation, and Shallow Land Burial of Low and Medium Radioactive Waste Forms** Wolfgang Krischer,Rainer Simon,1984 *Research and Development on Radioactive Waste Management and Storage* ,1983 Management of Plutonium Contaminated Waste G. Birkhoff,1981 **Conditioning and Storage of Spent Fuel Element Hulls** W. Hebel,G. Cottone,1982 **Waste PET-MOF-Cleanwater** Jianwei Ren,Philiswa Nosizo Nomngogo,Tien-Chien Jen,2022-11-10 In countries like South Africa firstly the waste PET stream has posed a serious problem to the environment and the current recycling of waste PET remains as low as 30% The waste PET recycling industries such as PETCO Extrupet South Africa are struggling to implement innovative processes to make cooperate more profitable Secondly metal organic frameworks MOFs as a new class of porous materials the MOFs based water treatment

holds the promises to provide cost effective solutions dealing with the polluted water However the high costs of MOFs production have raised a challenge for its effective implementations Given that cross cutting advances in materials and engineering will help to solve those societal challenges To maintain the world class research and development associated with human capacity in South Africa this multidisciplinary and transdisciplinary work has been strengthened along with the basic applied research continuum under the frame of South Africa NRF Poland NCBR Joint Science and Technology Research Collaboration Migration Phenomena of Radionuclides Into the Geosphere Bror Skytte Jensen, Commission of the European Communities, 1982 Synthetic Polymeric Membranes Blahoslav Sedláček, Jaroslav Kahovec, 2019-10-08

Radioactive Waste Disposal Into a Plastic Clay Formation Marco D'Alessandro, Arnold Bonne, 1981 Technologie industrie m tiers Treatment of Low- and Intermediate-level Liquid Radioactive Wastes International Atomic Energy Agency, 1984

Membranes and Membrane Processes Enrico Drioli, Masayuki Nakagaki, 2013-11-21 During the past two decades Membrane Science and Technology has made tremendous progress and has changed from a simple laboratory tool to large scale processes with numerous applications in Medicine and Industry In this volume are collected papers presented at the First Europe Japan Congress on Membrane and Membrane processes held in Stresa in June 1984 Other contributions to the Conference will be published in a special issue of the Journal of Membrane Science This Conference was organized by the European Society of Membrane Science and Technology and the Membrane Society of Japan to bring together European Scientists and Engineers face to face with their colleagues from Japan in both countries membrane processes will play a strategic role in many industrial areas in the 1990s as predicted by the Japanese project for Next Generation Industries and by the EEC Project on Basic Technological Research BRITE The large number of participants of about four hundred from twenty six countries including USA Australia China and Brazil the quality of the Plenary Lectures and Scientific Communications made the Conference a significant international success **Application of Membrane Technologies for Liquid Radioactive Waste Processing**, 2004 Membrane separation processes have made impressive progress since the first synthesis of membranes almost 40 years ago This progress was driven by strong technological needs and commercial expectations As a result the range of successful applications of membranes and membrane processes is continuously broadening In addition increasing application of membrane processes and technologies lies in the increasing variations of the nature and characteristics of commercial membranes and membrane apparatus The objective of the report is to review the information on application of membrane technologies in the processing of liquid radioactive waste The report covers the various types of membranes equipment design range of applications operational experience and the performance characteristics of different membrane processes The report aims to provide Member States with basic information on the applicability and limitations of membrane separation technologies for processing liquid radioactive waste streams

Radioactive Waste Management International Atomic Energy Agency, 1984 Bituminization Processes to Condition

Radioactive Wastes International Atomic Energy Agency,1993 The aim of this report is to review and evaluate the accumulated experience in the use of bituminization techniques for the immobilization of radioactive wastes including the description of incidents which have happened at bituminization facilities and to give an assessment on the role of bituminization processes in the strategy for radioactive waste management

Radioactive Waste Processing and Disposal U.S. Nuclear Regulatory Commission,1980

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

Advances in Technologies for the Treatment of Low and Intermediate Level Radioactive Liquid Wastes International Atomic Energy Agency,1994 This report describes a wide spectrum of treatment processes of both aqueous and organic radioactive

wastes It briefly covers upgraded traditional and well proven processes such as chemical precipitation ion exchange and evaporation and focuses on rather new membrane and electrochemical processes and combinations of these processes Methods based on the use of biological processes for the treatment of liquid radioactive wastes are described in this report for the first time It also describes both advantages and disadvantages of the technologies mentioned

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