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Scientific Basis for Nuclear Waste Management XVIII

Part 1

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Cho, Taishi Kobayashi, Bernd Grambow**

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Scientific Basis for Nuclear Waste Management XXIX Pierre Van Iseghem, 2006 *Scientific Basis for Nuclear Waste Management XVIII* Takashi Murakami, Rodney C. Ewing, 1995 *Scientific Basis for Nuclear Waste Management XVIII*, 1995

Scientific Basis for Nuclear Waste Management XXIII: Volume 608 Robert W. Smith, David W.

Shoesmith, 2000-10-09 This long standing symposia series has become the premier international forum for scientific and engineering issues related to all levels and types of radioactive wastes and their management Topics include fuel cladding and spent nuclear fuel container fabrication and corrosion performance assessment repository performance radionuclide sorption and transport cement based materials and waste containment corrosion of ceramic wasteforms structure and characterization of ceramics radiation effects natural analogs wasteform characterization and processing and corrosion and characterization of glass wasteforms *Radioactive Waste Management*, 1981 **Environmental Issues and Waste**

Management Technologies in the Materials and Nuclear Industries XII Alex Cozzi, Tatsuki Ohji, 2009-09-24 This book documents a special collection of articles from a select group of invited prominent scientists from academia national laboratories and industry who presented their work at the symposia on Environmental and Energy Issues at the 2008 Materials Science and Technology MS T 08 conference held in Pittsburgh PA These articles represent a summary of the presentations focusing on topics in nuclear environmental and green engineering were held including a discussion of Waste Glass Leach Testing and Modeling **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 **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.

Energy, Waste and the Environment R. Gieré, Peter Stille, 2004. This book provides incentives for further development of sustainable fuel cycles through a novel and interdisciplinary approach to an Earth science related topic. The main focus is on geochemical concepts in immobilizing isolating or neutralizing waste derived from energy production and consumption. The book also addresses the issue of using some types of energy derived waste as alternative raw materials. Moreover it highlights research on how certain wastes can be used for energy production an increasingly important aspect of modern integrated waste management strategies. The main objectives are to a identify the most serious environmental problems related to various types of power generation and associated waste accumulation b present strategies based on natural analogue materials for the immobilization of toxic and radioactive waste components through mineralogical barriers c discuss modern procedures for reuse of waste or certain waste components and d review the importance of geochemical modelling in describing and predicting the interaction between waste and the environment.

Microstructure of Smectite Clays and Engineering Performance Roland Pusch, Raymond N. Yong, 2006-08-21. Certain wastes such as nuclear wastes are so hazardous that their disposal creates a major challenge requiring considerable technical skill and understanding. Their effective isolation in the ground depends on the properties of the surrounding clays. This authoritative book explains the detailed function of clay based engineered barriers gives a number of examples of the design and construction of successful sites and sets out conceptual and theoretical models for the prediction of their performance. It begins by providing a scientific grounding in the relevant aspects of clay science and successively moves onto the practicalities while retaining the scientific slant. It will be useful for students and invaluable for research institutes specialists.

in environmental protection agencies and consultants in the field of disposal of hazardous waste **High Level Radioactive Waste (HLW) Disposal** R. Pusch,R. Yong,M. Nakano,2011-10-17 High Level Radioactive Waste HLW Disposal A Global Challenge presents the most recent information on proposed methods of disposal for the most dangerous radioactive waste and for assessing their function from short and long term perspectives It discusses new aspects of the disposal of such waste especially HLW The book is unique in the literature in making it clear that due to tectonics and long term changes in rock structure rock can serve only as a mechanical support to the chemical apparatus and that effective containment of hazardous elements can only be managed by properly designed and manufactured containers canisters This contradicts the common belief that the rock itself is an effective barrier to the transport of contaminants like radionuclides The importance of the longevity of the containers becomes clear and requires a consideration of all degrading physical chemical processes which occupies a considerable part of the book The book is thus an important contribution to the literature because it proposes design principles that can make repositories for HLW radioactive waste much safer The Chemistry of the Actinide and Transactinide Elements (Set Vol.1-6) L.R. Morss,Norman M. Edelstein,Jean Fuger,2010-10-21 The fourth edition of The Chemistry of the Actinide and Transactinide Elements comprises all chapters in volumes 1 through 5 of the third edition published in 2006 plus a new volume 6 To remain consistent with the plan of the first edition to provide a comprehensive and uniform treatment of the chemistry of the actinide and transactinide elements for both the nuclear technologist and the inorganic and physical chemist and to be consistent with the maturity of the field the fourth edition is organized in three parts The first group of chapters follows the format of the first and second editions with chapters on individual elements or groups of elements that describe and interpret their chemical properties A chapter on the chemical properties of the transactinide elements follows The second group chapters 15 26 summarizes and correlates physical and chemical properties that are in general unique to the actinide elements because most of these elements contain partially filled shells of 5f electrons whether present as isolated atoms or ions as metals as compounds or as ions in solution The third group chapters 27 39 focuses on specialized topics that encompass contemporary fields related to actinides in the environment in the human body and in storage or wastes Two appendices at the end of volume 5 tabulate important nuclear properties of all actinide and transactinide isotopes Volume 6 Chapters 32 through 39 consists of new chapters that focus on actinide species in the environment actinide waste forms nuclear fuels analytical chemistry of plutonium actinide chalcogenide and hydrothermal synthesis of actinide compounds The subject and author indices and list of contributors encompass all six volumes The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5) L.R. Morss,Norman M. Edelstein,Jean Fuger,2007-12-31 The Chemistry of the Actinide and Transactinide Elements is a contemporary and definitive compilation of chemical properties of all of the actinide elements especially of the technologically important elements uranium and plutonium as well as the transactinide elements In addition to the

comprehensive treatment of the chemical properties of each element ion and compound from atomic number 89 actinium through to 109 meitnerium this multi volume work has specialized and definitive chapters on electronic theory optical and laser fluorescence spectroscopy X ray absorption spectroscopy organoactinide chemistry thermodynamics magnetic properties the metals coordination chemistry separations and trace analysis Several chapters deal with environmental science safe handling and biological interactions of the actinide elements The Editors invited teams of authors who are active practitioners and recognized experts in their specialty to write each chapter and have endeavoured to provide a balanced and insightful treatment of these fascinating elements at the frontier of the periodic table Because the field has expanded with new spectroscopic techniques and environmental focus the work encompasses five volumes each of which groups chapters on related topics All chapters represent the current state of research in the chemistry of these elements and related fields

Chemical Containment of Waste in the Geosphere Richard Metcalfe, Christopher A. Rochelle, 1999 This text considers chemical processes within the geosphere that may be harnessed to contain a wide range of wastes It contains contributions from experts in waste containment technologies and covers many issues such as radioactive waste management

Advances in Nuclear Fuel Shripad T. Revankar, 2012-02-22 Worldwide there are more than 430 nuclear power plants operating and more plants are being constructed or planned for construction For nuclear power to be sustainable the nuclear fuel must be sustainable and there should be adequate nuclear fuel waste management program Continuous technological advances will lead towards sustainable nuclear fuel through closed fuel cycles and advance fuel development This focuses on challenges and issues that need to be addressed for better performance and safety of nuclear fuel in nuclear plants These focused areas are on development of high conductivity new fuels radiation induced corrosion fuel behavior during abnormal events in reactor and decontamination of radioactive material

Microbiology of the Terrestrial Deep Subsurface

Penny S. Amy, 2018-01-10 Obtaining and analyzing samples is challenging in subsurface science This first of its kind reference book addresses accomplishments in this field from drilling to sample work up A collaborative approach is taken involving the efforts of microbiologists geochemists hydrologists and drilling and mining experts to present a comprehensive view of subsurface research The text provides practical information about obtaining analyzing and evaluating subsurface materials the current status of subsurface microbial ecology and describes several applications that will interest a variety of readers including engineers physical and life scientists

Uncertainty Underground Allison Macfarlane, Rodney C. Ewing, 2006 Experts from science industry and government discuss the unresolved scientific and technical issues surrounding the Yucca Mountain site as a geologic repository for high level nuclear waste

The State of Development of Waste Forms for Mixed Wastes National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Mixed Wastes, 1999-07-02

An International Spent Nuclear Fuel Storage Facility Russian Academy of Sciences, National Research Council, Policy and Global Affairs, Development, Security, and

Cooperation, Office for Central Europe and Eurasia, Committee on the Scientific Aspects of an International Spent Nuclear Fuel Storage Facility in Russia, 2005-10-03 As part of a long standing collaboration on nuclear nonproliferation the National Academy of Sciences and the Russian Academy of Sciences held a joint workshop in Moscow in 2003 on the scientific aspects of an international radioactive disposal site in Russia The passage of Russian laws permitting the importation and storage of high level radioactive material primarily spent nuclear fuel from reactors has engendered interest from a number of foreign governments including the U S in exploring the possibility of transferring material to Russia on a temporary or permanent basis The workshop focused on the environmental aspects of the general location and characteristics of a possible storage site transportation to and within the site containers for transportation and storage inventory and accountability audits and inspections and handling technologies

Geologic Disposal of Low- and Intermediate-Level Radioactive Waste

Roland Pusch, Raymond N. Yong, Masashi Nakano, 2017-04-07 This book will address concepts and techniques for preparation and disposal of low LLW and intermediate level ILW radioactive waste from the nuclear industry the weapons industry university labs research institutes and from the commercial industry It will aid decision makers in finding optimal technical economical solutions including how site investigations design construction identification and selection of construction materials clay and concrete and monitoring can be made It will also examine techniques for isolating soil and rock contaminated by leaking nuclear plants and from damaged nuclear reactors such as those at the Fukushima and Chernobyl nuclear plants

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