

Radionuclide Retention in Geologic Media

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Radionuclide Retention In Geologic Media

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Radionuclide Retention In Geologic Media:

Radionuclide Retention in Geologic Media Svensk kärnbränslehantering AB., OECD Nuclear Energy Agency, NEA Project on Radionuclide Migration in Geologic, Heterogeneous Media, Organisation for Economic Co-operation and Development, 2002 GEOTRAP is the OECD NEA Project on Radionuclide Migration in Geologic Heterogeneous Media carried out in the context of site evaluation and safety assessment of deep repository systems for long lived radioactive waste Retention of radionuclides within the geosphere for prolonged periods is an important safety function of deep geologic disposal concepts for radioactive waste The extent to which retention processes can be relied upon in repository performance assessment depends upon the existence of well established theoretical bases for the processes It also depends on support for the opera

The Handbook of Groundwater Engineering, Third Edition John H. Cushman, Daniel M. Tartakovsky, 2016-11-25 This new edition adds several new chapters and is thoroughly updated to include data on new topics such as hydraulic fracturing CO2 sequestration sustainable groundwater management and more Providing a complete treatment of the theory and practice of groundwater engineering this new handbook also presents a current and detailed review of how to model the flow of water and the transport of contaminants both in the unsaturated and saturated zones covers the protection of groundwater and the remediation of contaminated groundwater

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

Geological Repository Systems for Safe Disposal of Spent Nuclear Fuels and Radioactive Waste Michael J Apted, Joonhong Ahn, 2017-05-25 Geological Repository Systems for Safe Disposal of Spent Nuclear Fuels and Radioactive Waste Second Edition critically reviews state of the art technologies and scientific methods relating to the implementation of the most effective approaches to the long term safe disposition of nuclear waste also discussing regulatory developments and social engagement approaches as major themes Chapters in Part One introduce the topic of geological disposal providing an overview of near surface intermediate depth and deep borehole disposal spanning low medium and high level wastes Part Two addresses the different types of repository systems crystalline clay and salt also discussing methods of site surveying and construction The critical safety issue of engineered barrier systems is the focus of Part Three with coverage ranging from nuclear waste canisters to buffer and backfill materials Lastly Parts Four and Five focus on safety security and acceptability

concentrating on repository performance assessment then radiation protection environmental monitoring and social engagement Comprehensively revised updated and expanded with 25% new material on topics of current importance this is the standard reference for all nuclear waste management and geological repository professionals and researchers Contains 25% more material on topics of current importance in this new comprehensive edition Fully updated coverage of both near surface intermediate depth and deep borehole disposal in one convenient volume Goes beyond the scientific and technical aspects of disposal to include the political regulatory and societal issues involved all from an international perspective

New publications of the U.S. Geological Survey Geological Survey (U.S.),2002 **New Publications of the U.S.**

Geological Survey ,2002 *New Publications of the Geological Survey Geological Survey (U.S.),2002* *Groundwater in Fractured Rocks* Jiri Krásný,John M. Sharp,2007-07-05 The hydrogeologic environment of fractured rocks represents vital natural systems examples of which occur on every continent This book discusses key issues methodologies and techniques in the hydrogeology of fractured rocks summarizing recent progress and anticipating the outcome of future investigations Forty four revised and updated papers w *General Investigation of Radionuclide Retention in Migration Pathways at the West Valley, New York, Low-level Burial Site* Richard Henry Dana,1980 *Groundwater in Fractured Rocks* John M. Sharp,2007-07-05 The hydrogeologic environment of fractured rocks represents vital natural systems examples of which occur on every continent This book discusses key issues methodologies and techniques in the hydrogeology of fractured rocks summarizing recent progress and anticipating the outcome of future investigations Forty four revised and updated papers w Radionuclide Retention in Geologic Media ,2002 Networks on Networks Allen G. Hunt,Stefano Manzoni,2016-01-01 Order from chaos is simultaneously a mantra of physics and a reality in biology Physicist Norman Packard suggested that life developed and thrives at the edge of chaos Questions remain however as to how much practical knowledge of biology can be traced to existing physical principles and how much physics has to change in order to address the complexity of biology Phil Anderson a physics Nobel laureate contributed to popularizing a new notion of the end of reductionism In this view it is necessary to abandon the quest of reducing complex behavior to known physical results and to identify emergent behaviors and principles In the present book however we have sought physical rules that can underlie the behavior of biota as well as the geochemistry of soil development We looked for fundamental principles such as the dominance of water flow paths with the least cumulative resistance that could maintain their relevance across a wide range of spatial and temporal scales together with the appropriate description of solute transport associated with such flow paths Thus ultimately we address both nutrient and water transport limitations of processes from chemical weathering to vascular plant growth The physical principles guiding our effort are established in different but related concepts and fields of research so that in fact our book applies reductionist techniques guided by analogy The fact that fundamental traits extend across biotic and abiotic processes i e the same fluid flow rate is relevant to both but that distinctions in topology of the connected

paths lead to dramatic differences in growth rates helps unite the study of these nominally different disciplines of geochemistry and geobiology within the same framework It has been our goal in writing this book to share the excitement of learning and one of the most exciting portions to us has been the ability to bring some order to the question of the extent to which soils can facilitate plant growth and what limitations on plant sizes metabolism occurrence and correlations can be formulated thereby While we bring order to the soil constraints on growth we also generate some uncertainties in the scaling relationships of plant growth and metabolism Although we have made an first attempt to incorporate edaphic constraints into allometric scaling this is but an initial foray into the forest

Pilot Study Risk Assessment for Selected Problems at the Nevada Test Site (NTS) Jeffrey I. Daniels,1993 **Geology of High-Level Nuclear Waste Disposal** I.S. Roxburgh,2012-12-06 High-level Radioactive Wastes ,1982 *Nuclear Waste Disposal* United States. Congress. House. Committee on Interstate and Foreign Commerce. Subcommittee on Energy and Power,1980 **Research and Development for the Deep Geological Disposal of Radioactive Wastes** ,2006 Radionuclide Retention in Geologic Media Organisation for Economic Co-operation and Development,2002 *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 **Geological Disposal of Radioactive Waste in Deep Clay Formations** X.L. Li,M. Van Geet,C. Bruggeman,M. De Craen,2023-09-01 As part of research into the geological disposal of radioactive waste in Belgium the HADES underground research laboratory URL was constructed in a clay formation in the early 1980s This was the world s first purpose built URL in a deep clay formation Over the past four decades the HADES URL has played an important role in the research development and demonstration RD D of geological disposal It enabled the in situ characterization of the clay host rock it allowed experiments to be performed under realistic geological conditions and it demonstrated the feasibility of constructing operating and closing underground repositories This volume presents several key contributions of the HADES URL to both Belgian and international research into geological disposal It not only compiles some important RD D results but also illustrates the essential role URLs such as the HADES URL have played in developing concepts for the geological disposal of radioactive waste

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