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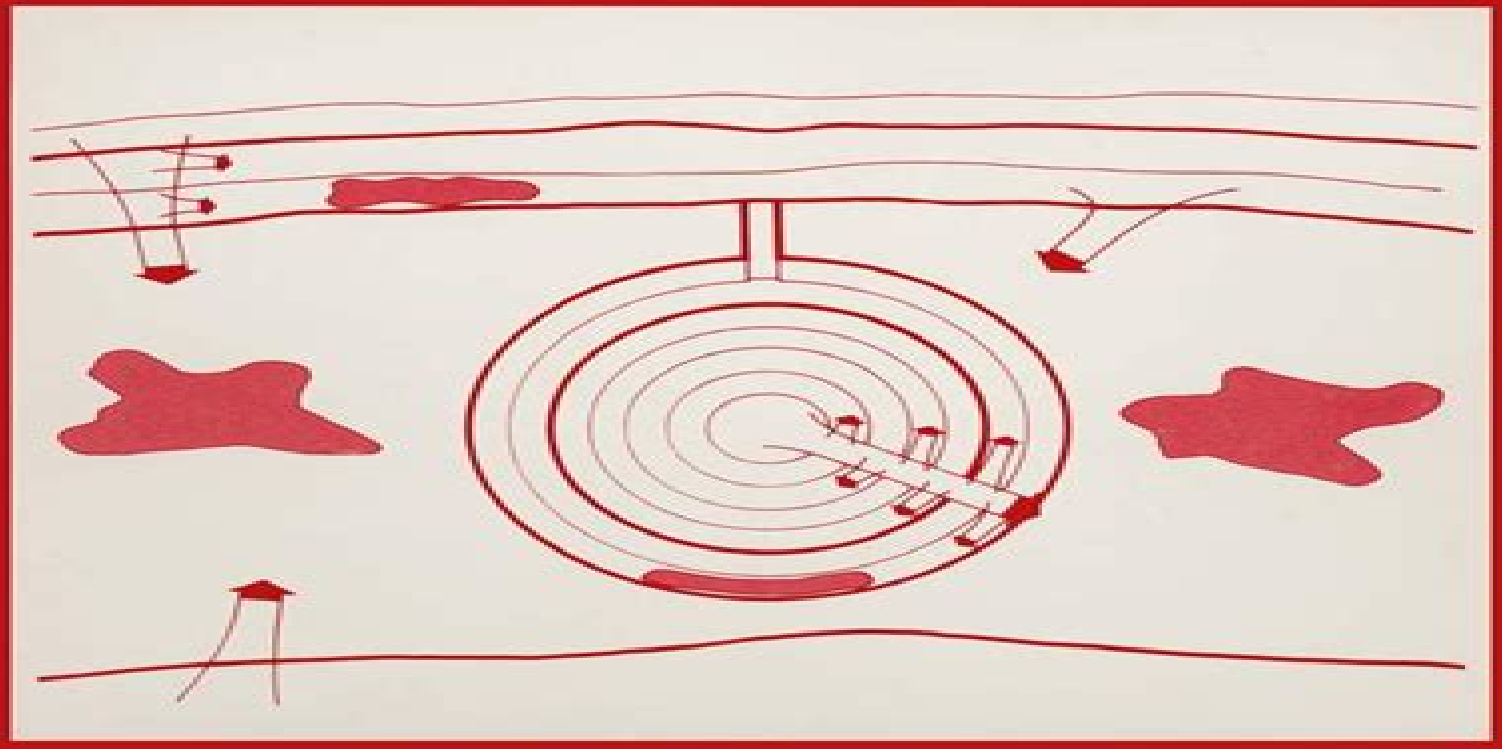
Scientific Basis for Nuclear Waste Management

Volume 2



Scientific Basis For Nuclear Waste Management

Walter J. Gray,Ines R. Triay

Scientific Basis For Nuclear Waste Management:

Scientific Basis for Nuclear Waste Management Gregory J. McCarthy,2012-12-06 During late 1978 a symposium entitled Science Underlying Radioactive Waste Management was one component of the Annual Meet ing of the Materials Research Society held in Boston Massachusetts The purpose of this Symposium was to bring together for the first time the entire range of sciences that form the basis for the treatment solidification and isolation of radioactive wastes Some 79 papers were presented to an international audience of over 300 The Symposium was such an impressive success that another will be held at the 1979 Annual Meeting of the Materials Research Society The proceedings of the forthcoming symposium will also be published and it is for this reason that the present volume has been desig nated Volume 1 The scope of the Symposium was defined by the following steer ing committee Rustum Roy The Pennsylvania State University Chairman Richard S Claassen Sandia Laboratories Don Ferguson Oak Ridge National Laboratory Victor I Spitsyn U S S R Academy of Sciences Moscow David B Stewart United States Geological Survey Torbjorn Westermark Royal Institute of Technology Stockholm The program was organized by the following committee Gregory J McCarthy The Pennsylvania State University Cha man Harry C Burkholder Battelle Memorial Institute Arnold M Friedman Argonne National Laboratory Werner Lutze Hahn Meitner Institut Berlin John G Moore Oak Ridge National Laboratory Robert W Potter II United States Geological Survey Richard L Schwoebe1 Sandia Laboratories Roger W Staehle Ohio State University *Scientific Basis for Nuclear Waste Management XXII: Volume 556* David J. Wronkiewicz,Joon H. Lee,1999-11-24 Safe and effective management of nuclear waste provides a broad range of challenges for materials science Waste processing waste form and engineered barrier properties interactions between engineered and geological systems radiation effects chemistry and transport of waste species and long term predictions of repository performance are just some of the scientific problems facing modern society This book the 22nd in a very successful series from MRS offers an international and inter disciplinary perspective on the issues and features developments in both fundamental and applied areas Topics include development and characterization of ceramic waste forms ceramic waste form corrosion glass waste form processing glass formulation properties and structure glass waste form corrosion spent nuclear fuel performance assessment repository backfill flow and transport natural analogues container corrosion metal waste form corrosion radionuclide speciation and solubility radionuclide sorption microbial effects radiation effects cement waste forms and waste treatment *Scientific Basis for Nuclear Waste Management* Gregory J. McCarthy,1979 Scientific Basis for Nuclear Waste Management XII: Volume 127 Werner Lutze,Rodney C. Ewing,1989-04-21 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *Scientific Basis for Nuclear Waste Management* ,1994 **Scientific Basis for Nuclear Waste Management** John G. Moore,2013-02-14 The third International Symposium on the Scientific Basis for Nuclear Waste Management was held in Boston Massachusetts on November 17 20 1980 as part of the Annual Meeting of the Materials

Research Society The purpose of this Symposium was to provide an interdisciplinary forum for the discussion of scientific research dealing with all levels and types of radioactive wastes and their management Since its inception in 1978 this annual Symposium has provided a unique opportunity for scientists of widely differing backgrounds to share in such discussions The proceedings of the first two meetings were published as Volumes 1 and 2 in this series The fourth Symposium is scheduled to be held in the autumn of 1981 The efforts of many people went into making this meeting a success The scope of the 1980 Symposium was guided by the follow ing Steering Committee K J Notz Chairman Oak Ridge National Laboratory USA G H Daly Department of Energy USA D E Ferguson Oak Ridge National Laboratory USA R H Flowers Atomic Energy Research Establishment UK F Girardi Ispra Establishment Italy T Ishihara Radioactive Waste Management Center Japan R W Lynch Sandia Laboratories USA S A Mayman Atomic Energy of Canada Ltd Canada G J McCarthy North Dakota State University USA E Merz Kernforschunganlage Jillich FRG L Nilsson KBS Project Sweden D M Rohrer Nuclear Regulatory Commission USA R Roy Pennsylvania State University USA T E Scott Ames Laboratory USA C **Scientific Basis for Nuclear Waste Management** Gregory J. McCarthy,1979-06 *Scientific Basis for Nuclear Waste Management XXXVI: Volume 1518* Neil Hyatt,Kevin M. Fox,Kazuya Idemitsu,Christophe Poinssot,Karl R. Whittle,2013-10-28 Symposium LL Scientific Basis for Nuclear Waste Management XXXVI was held November 25 30 at the 2012 MRS Fall Meeting in Boston Massachusetts This Symposium continues to set the research agenda in the field of radioactive waste management charting the development of waste processing conditioning packaging and disposal Symposium XXXVI featured 77 presentations delivered over four days during the 2012 MRS Fall Meeting from participants in Australia Austria Finland France Japan Russia Spain Sweden Switzerland the United Kingdom and United States of America Sessions reported on advances in glass and ceramic wasteforms conditioning of technetium management of spent nuclear fuel and geological disposal plus a special joint session with Symposium HH on radiation effects in nuclear materials Each paper provides a snapshot of the exciting recent developments in each of these areas and the international progress toward achieving the safe timely and cost effective management and disposal of radioactive wastes *Scientific Basis for Nuclear Waste Management XIX: Volume 412* Materials Research Society. Meeting,1996-04-03 Safe and effective management of nuclear waste provides a broad range of challenges for materials science Waste processing waste form and engineered barrier properties interactions between engineered and geological systems radiation effects chemistry and transport of waste species and long term predictions of repository performance are just some of the scientific problems facing modern society This book the nineteenth in a very successful series from MRS offers an international and interdisciplinary perspective on the issues and features developments in both fundamental and applied areas Topics include excess plutonium dispositioning spent nuclear fuel glass waste forms ceramic and crystalline waste forms cement waste forms waste processing waste container materials speciation and sorption bentonite barriers flow and transport repository site characterization natural analogs and performance assessment

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nuclear fuel waste processing and treatment radiation effects in ceramics glasses and nuclear waste materials waste package materials radionuclide solubility and speciation radionuclide sorption radionuclide transport repository backfill performance assessment natural analogues and excess plutonium dispositioning Scientific Basis for Nuclear Waste Management IV: Volume 6 Materials Research Society. Meeting,1982 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Scientific Basis for Nuclear Waste Management XXXII: Volume 1124** Neil C. Hyatt,David A. Pickett,Raul B. Rebak,2009-07-30 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Scientific Basis for Nuclear Waste Management VIII** International Symposium on the Scientific Basis for Nuclear Waste Management,1985

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