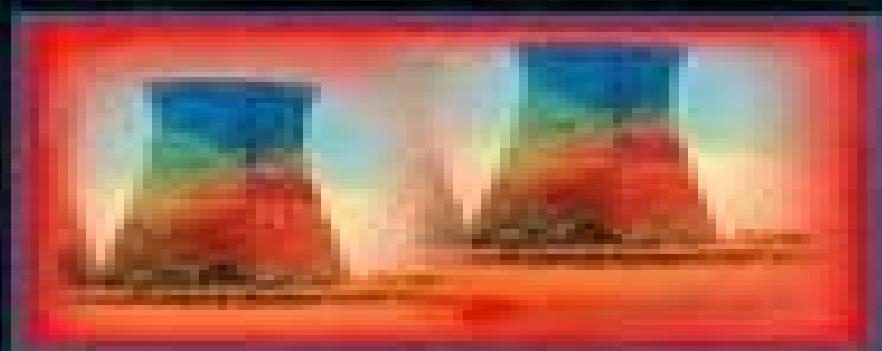


GLASSES, GLASS-CERAMICS AND CERAMICS FOR IMMOBILIZATION OF HIGHLY RADIOACTIVE NUCLEAR WASTES



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Radioactive Waste Management James Saling, 2018-04-27 This reviews sources of radioactive waste and introduces radioactive decay and radiation shielding calculations It covers technical and regulatory aspects of waste management with discussion questions at the end of each chapter to provide an opportunity to explore the many facets of waste management issues An extensive reference list at the end of each chapter retains the references from the first edition of the book and incorporates references used in preparing this revised text giving readers an opportunity to look at historical records as well as current information *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

Corrosion of Ceramic Materials Ronald A. McCauley, 2016-04-19 Reflecting the many changes in the field since the publication of the second edition Corrosion of Ceramic Materials Third Edition incorporates more information on bioceramics including nanomaterials as well as the weathering of construction materials Adhering to the original plan of classification by chemistry this edition reorganizes the top

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

Corrosion of Ceramic and Composite Materials, Second Edition Ronald A. McCauley, 2004-06-23 Corrosion of Ceramic and Composite Materials Second Edition is a primary source of guidance for the assessment interpretation and inhibition of corrosion phenomena This book discusses all aspects of corrosion of ceramics including environments mechanisms and

materials and the means to minimize or eliminate corrosion The author compiles key findings and literature highlights from nearly a decade of scientific advancement covering emerging techniques in corrosion analysis characterization and prediction He provides at a glance coverage of national and international testing procedures for the evaluation of materials stability The book covers the fundamentals of corrosion by gases liquids and solids of several ceramic materials including crystalline materials glasses composites bioceramics and advanced ceramics It also discusses property corrosion relationships and testing The book collects a generous number of models figures and studies illustrating techniques to minimize and reduce the effects of various mechanisms contributing to the corrosion of civil aerospace and military structures The second edition includes a review of all the current literature since publication of the first edition an additional chapter on composites and major sections added on bioceramics and weathering of construction materials Corrosion of Ceramic and Composite Materials Second Edition explains existing corrosion problems and offers an excellent guide to the design and development of corrosion resistant structures

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Glass IV Minoru Tomozawa, Robert H. Doremus, 2013-10-22 Treatise on Materials Science and Technology Volume 28 Glass IV covers the developments in glass science and technology The book discusses the use of silicon dioxide films in semiconductor devices the nuclear waste glasses and the synthesis and properties of oxynitride glasses The text also describes the preparation the properties and the applications of heavy metal fluoride glasses and an analytical model of viscoelasticity in seals Materials scientists and materials engineers will find the book invaluable

Waste Immobilization in Glass and Ceramic Based Hosts Ian W. Donald, 2010-04-01 The safe storage in glass based materials of both radioactive and non radioactive hazardous wastes is covered in a single book making it unique Provides a comprehensive and timely reference source at this critical time in waste management including an extensive and up to date bibliography in all areas outlined to waste conversion and related technologies both radioactive and non radioactive Brings together all aspects of waste vitrification draws comparisons between the different types of wastes and treatments and outlines where lessons learnt in the radioactive waste field can be of benefit in the treatment of non radioactive wastes

Concise Encyclopedia of Advanced Ceramic Materials R.J. Brook, 2012-12-02 Advanced ceramics cover a wide range of materials which are ceramic by nature but have been developed in response to specific requirements This encyclopedia collects together 137 articles in order to provide an up to date account of the advanced ceramic field Some articles are drawn from the acclaimed Encyclopedia of Materials Science and Engineering often revised and others have been newly commissioned The Concise Encyclopedia of Advanced Ceramic

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Natural Analogues in Radioactive Waste Disposal B. Come, N.A. Chapman, 2012-12-06 In order to validate predictive models of the very long term processes which affect the performance of radioactive waste repositories there has been an increased interest in the information and understanding which can be obtained from studying similar mechanisms in natural systems. These natural analogues as they are known in the jargon of waste management have been studied sporadically for many years but there has been a considerable rejuvenation of interest in the last four years possibly owing to the fact that performance assessment methodology is gradually maturing to the point where it needs the kind of support which analogues can offer. Since 1982 the Commission of the European Communities has been involved in specific work on natural analogues in the framework of its activities on radioactive waste management principally within the MIRAGE project which concerns migration of radionuclides in the geosphere. As a consequence the Commission took the initiative in 1985 of establishing a Natural Analogue Working Group (NAWG) whose members can benefit from the overall expertise available for managing their own natural analogue research programmes. In this group modelers' requirements and the results of field research are exchanged at regular intervals. A number of wide ranging investigation programmes both on national and international scales are currently underway or being initiated and several of these have been discussed recently at the NAWG. **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 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

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Hazardous and Radioactive Waste Treatment Technologies Handbook Chang H. Oh, 2001-06-27 With detailed photos and schematic system diagrams the Hazardous and Radioactive Waste Treatment Technologies Handbook provides the latest information on current technologies in the market Intended as a reference for scientists engineers and engineering students it covers waste related thermal and non thermal technologies separation techniques and stabilization technologies It provides an overview of recent waste technologies for both hazardous chemical wastes and radioactive wastes By implementing the techniques presented in this book readers will be able to decide which appropriate technology to use and how to design the equipment for their particular needs

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