



TECHNICAL REPORTS SERIES No. **253**

Operational Experience in Shallow Ground Disposal of Radioactive Wastes



INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1985

Report On Radioactive Waste Disposal Technical Reports Series International Atomic Energy Agency

**Lawrence K. Wang, Mu-Hao Sung
Wang, Yung-Tse Hung, Nazih K.
Shammas**

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National Library of Medicine Current Catalog National Library of Medicine (U.S.),1971 First multi year cumulation covers six years 1965 70 **Handbook of Radioactivity Analysis** Michael F. L'Annunziata,2020-03-07 Handbook of Radioactivity Analysis Radiation Physics and Detectors Volume One and Radioanalytical Applications Volume Two Fourth Edition constitute an authoritative reference on the principles practical techniques and procedures for the accurate measurement of radioactivity everything from the very low levels encountered in the environment to higher levels measured in radioisotope research clinical laboratories biological sciences radionuclide standardization nuclear medicine nuclear power and fuel cycle facilities and in the implementation of nuclear forensic analysis and nuclear safeguards It includes sample preparation techniques for all types of matrices found in the environment including soil water air plant matter and animal tissue and surface swipes Users will find the latest advances in the applications of radioactivity analysis across various fields including environmental monitoring radiochemical standardization high resolution beta imaging automated radiochemical separation nuclear forensics and more Spans two volumes Radiation Physics and Detectors and Radioanalytical Applications Includes a new chapter on the analysis of environmental radionuclides Provides the latest advances in the applications of liquid and solid scintillation analysis alpha and gamma spectrometry mass spectrometric analysis Cherenkov counting flow cell radionuclide analysis radionuclide standardization aerosol analysis high resolution beta imaging techniques analytical techniques in nuclear forensics and nuclear safeguards Describes the timesaving techniques of computer controlled automatic separation and activity analysis of radionuclides Provides an extensive table of the radiation characteristics of most radionuclides of interest for the radioanalytical chemist **Current Catalog** National Library of Medicine (U.S.),1966 Includes subject section name section and 1968 1970 technical reports **Experience in the Management of Radioactive Waste After Nuclear Accidents: A Basis for Preplanning** IAEA,2022-11-22 Major accidents at a nuclear power plant or fuel cycle facility are rare but can produce large quantities of radioactive waste with widely varying characteristics that can be difficult to manage Large volumes of radioactive waste can also be generated by accidents at military installations or by the mishandling high activity sealed radiation sources In the case of a major accident radioactive waste volumes may quickly overwhelm existing national management and disposal infrastructure Appropriate disposal facilities might not be available to match the amounts or characteristics of the wastes This publication is developed to support Member States efforts towards improved preparedness related to the management of radioactive waste in the event of a nuclear or radiological accident It builds on experiences gained following historic accidents to develop lessons learned which planners in governmental agencies and nuclear facilities are encouraged to consider in preplanning activities **Separation Techniques in Nuclear Waste Management (1995)** Thomas E Carleson,Chien M. Wai,Nathan A. Chipman,2017-11-22 Separation Techniques in Nuclear Waste Management is an up to date comprehensive survey of

processes for separation of nuclear wastes Comprised of articles by scientists and engineers at universities and national laboratories in the U S and overseas the book provides excellent reference information for individuals working in nuclear waste management Specifically the book covers current separation technologies and techniques for waste liquid solid and gas streams that contain radionuclides Such wastes are typical of those produced as a result of nuclear materials processing and spent fuel reprocessing Chapters on promising new technologies and state of the art processes currently in use provide valuable information for design engineers as well as for research scientists The articles in Separation Techniques in Nuclear Waste Management are brief and concise designed for quick access to pertinent information Many of the contributors are leaders in their fields It is the most current survey available of the latest nuclear waste management techniques **Modern**

Nanotechnology Junaid Ahmad Malik, Mohamed Jaffer Sadiq Mohamed, 2023-07-18 This two volume set provides a comprehensive overview of modern nanoscience and encompasses advanced techniques of nanocomposite materials that make their way from the laboratory to the field for the revival of energy and environmental systems in a sustainable manner It includes the design and the sophisticated fabrication of nanomaterials along with their potential energy and environmental applications while looking at how nanoscience and nanotechnology can be used to promote environmentally friendly processes and strategies The books purpose is to promote eco friendly methods and techniques by covering many elements of both the synthesis and uses of nanoparticles and nanofluids for energy and environmental engineering They provide an up to date synthesis of nanocomposite materials for modern nanotechnology applications in the fields of environment protection heterogeneous catalysis wastewater treatment fuel cells electrochemical energy conversion and storage applications The set is designed for environmental scientists nanotechnologists chemists engineers and individuals seeking current research on nanotechnology and its applications in environmental engineering Graduate students working in these fields will also find it a valuable resource Volume 1 focuses on the fundamentals of nanotechnology environmental protection sustainable agriculture bioremediation bio nanocomposites and wastewater treatment **Decommissioning at a Multifacility Site**

IAEA, 2022-06-16 In recent years several Member States have completed the decommissioning of multifacility nuclear sites This publication consolidates their technical and organizational experience and provides information and practical guidance that promotes safe timely and cost effective implementation All phases of decommissioning are discussed from planning and dismantling to waste management and site release as well as organizational schemes and funding This publication is intended for decision makers plant operators contractors and regulators involved in planning management authorization and execution of decommissioning activities It is particularly relevant for multifacility site operators with nuclear facilities approaching the end of their foreseen lifetime The publication will also be of interest for the designers and builders of new nuclear installations in order to facilitate eventual decommissioning *Environmental Protection in New Nuclear Power Programmes* IAEA, 2024-01-31 Protection of the environment is one of the cornerstones of sustainable development a key

consideration for Member States embarking on new nuclear power programs National requirements and international instruments increasingly reflect this concern and for the provision of opportunities for interested parties and stakeholders to be involved in decision making processes This new edition provides valuable guidance to Member States on issues related to environmental protection when considering a new nuclear power plant It aligns more closely with the phased approach and takes into account Revision 1 of IAEA Nuclear Energy Series NG G 3 1 and highlights the interface with other infrastructure issues It also considers lessons learned from the 30 Integrated Nuclear Infrastructure Review INIR missions conducted to date and ensures consistency and alignment of approaches and terminology with other relevant IAEA publications This publication is primarily intended for Member States who are considering or embarking on new nuclear power programs and specifically the decision makers and technical specialists who are involved in environmental protection

Radioactive Pollutant Nitish Kumar, 2024-12-10 This book sheds light on the global environmental issue and proposes solutions to contamination through multi disciplinary approaches Radioactivity occurs naturally Ionizing radiation has always been a threat to humans and all other living things on earth While the average global readings could be a suitable benchmark for what must be deemed normal the natural level of radiation exposure varies by around an order of magnitude for different locations of the earth Regardless of whether this degree of radiation exposure qualifies as innocuous it cannot be avoided because some diseases may be caused by exposure to naturally occurring radiation As a result these natural exposures serve as the foundation for and comparison point for radiation protection principles such as dose limits or limitations The majority of the ionizing radiation that the world's population is exposed to comes from natural sources The public receives maximum doses from nuclear sites that are now in normal operation those are typically two orders of magnitude below the background radiation In industrialized nations medical uses of radioactivity and ionizing radiation result in mean doses that are comparable to those from natural radiation but individual doses vary greatly This edited book brings together a diverse group of researchers to address the challenges posed by global mass poisoning caused by radionuclides This book contains three sections First section describes the different sources of radioactive pollutant in the environment Second section explains the health risk linked to radioactive pollutant Third section addresses sustainable remediation strategies of radioactive waste and the potential applications of recent biological technology in providing solutions This book is a valuable resource to students academics researchers and environmental professionals doing field work on management of radioactive waste throughout the world

World Nuclear Power Peter R Mounfield, 2017-09-11 Originally published in 1991 this comprehensive volume provides not only technical information regarding the global nuclear power industry but also discusses the economic social and political issues which have an impact on the industry There are specific chapters on the nuclear industry in the USA and Canada Western Europe the former USSR and Eastern Europe and East Asia which examine in detail the particular set of geographical and economic conditions which affect each area Including an extensive glossary figures and tabulated

information this book remains one of the most accessible impartial and thorough studies of the global nuclear industry

Guidebook on Spent Fuel Storage Options and Systems IAEA,2024-01-31 This publication is a new edition of Technical Reports Series No 240 Guidebook on Spent Fuel Storage 1991 It aims to provide guidance on spent fuel storage options describing the history and observed trends of spent fuel storage technologies gathering operational experiences and lessons learned The evolving aspects related to higher burnup and mixed oxide MOX spent fuel and the extension of storage timeframes are detailed It also includes information on the distribution of the current global inventory of spent fuel by storage systems a description of and terminology relating to available spent fuel storage technologies and different storage facility locations

Nuclear Decommissioning Case Studies Michele Laraia,2021-02-09 Nuclear Decommissioning Case Studies Accidental Impacts on Workers the Environment and the Public Volume One presents a collection of international case studies that show impacts on workers the public and the environment Author Michele Laraia describes typical stages of decommissioning such as categorization hazard and risk analysis and the risks and impacts involved at each stage Each case is introduced before discussing its impacts solutions analysis and lessons learned This book uniquely collects categorizes and compares radiological and non radiological accidents incidents and near misses which will be of great value to practitioners in industry and authorities developing nuclear programs Finally this book instructs readers on important prevention mitigation and control measures to create sustainable safe nuclear facilities Includes various case studies and analyses on the impact of nuclear decommissioning on environmental sustainability workers and the public Highlights the need of ensuring sustainability plans at the beginning of a nuclear project and informs decision makers on how to select the best options Guides the reader through a systematic analysis of the likelihood of incidents and how to take measures against them

Methods for the Minimization of Radioactive Waste from Decontamination and Decommissioning of Nuclear Facilities International Atomic Energy Agency,2001 Simple text and photographs introduce the life of George Washington Carver

Nuclear Waste Management Facilities Rehab O Abdel Rahman,2024-02-24 Nuclear Waste Management Facilities Advances Environmental Impacts and Future Prospects examines best practices and recent trends in improving nuclear safety and reducing the negative environmental impacts of nuclear waste With strong emphasis on regulatory requirements this reference is essential for designing new integrated waste management practices using lessons learned from historical and current practices Divided into three key sections Part One introduces the reader to the safety and environmental impacts of the nuclear industry Part Two reviews recent technological and methodological approaches to enhancing safety as well as reducing the carbon footprint of both individual processes and integrated facilities Topics covered include waste processing transmutation and decommissioning Part Three consider potential management schemes for special waste from innovative sources and wastes that contain emerging contaminants including waste recycling opportunities Nuclear Waste Management Facilities Advances Environmental Impacts and Future Prospects is a crucial tool needed to implement the safest and most

environmentally considerate best practices within nuclear waste management facilities Presents recent approaches used to assess and improve the safety and reduce the environmental impacts of nuclear waste management facilities Offers technical guidance to support the development and defense of the environmental impact assessment EIA and Safety Cases to support the waste management facilities licensing throughout their lifecycles Highlights the future perspectives for wastes produced from innovative reactors and wastes containing emerging contaminants and recycling opportunities

Biotechnology for Waste Management and Site Restoration C. Ronneau, O. Bitchaeva, 2012-12-06 Biotechnology for Waste Management and Site Restoration covers waste management solid gaseous liquid site restoration radioactivity organics toxic metals educational economic social and business aspects and international collaboration International collaboration is growing apace and many concrete projects have been started The body of knowledge is growing Over the long term it is envisaged that this international collaboration will result in a long term scientific and technological strategy new technologies and alternative solutions and practical implementations of biotechnology for the nuclear and industrial sectors of the economy

Nuclear Decommissioning Michele Laraia, 2012-02-21 Once a nuclear installation has reached the end of its safe and economical operational lifetime the need for its decommissioning arises Different strategies can be employed for nuclear decommissioning based on the evaluation of particular hazards and their attendant risks as well as on the analysis of costs of clean up and waste management This allows for decommissioning either soon after permanent shutdown or perhaps a long time later the latter course allowing for radioactivity levels to drop in any activated or contaminated components It is crucial for clear processes and best practices to be applied in decommissioning such installations and sites particular where any significant health and environmental risks exist This book critically reviews the nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities Part one focuses on the fundamental planning issues in starting a nuclear decommissioning process from principles and safety regulations to financing and project management Part two covers the execution phase of nuclear decommissioning projects detailing processes and technologies such as dismantling decontamination and radioactive waste management as well as environmental remediation site clearance and reuse Finally part three details international experience in the decommissioning of nuclear applications including the main nuclear reactor types and nuclear fuel cycle facilities as well as small nuclear facilities and legacy nuclear waste sites Critically reviews nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities Discusses the fundamental planning issues in starting a nuclear decommissioning process Considers the execution phase of nuclear decommissioning projects including dismantling decontamination and radioactive waste management as well as environmental remediation site clearance and reuse

Handbook of Environment & Waste Management Yung-Tse Hung, 2014 The Handbook of Environment and Waste Management Volume 2 Land and Groundwater Pollution Control is a comprehensive compilation of topics that are at the forefront of many of the technical advances and

practices in solid waste management and groundwater pollution control These include biosolids management landfill for solid waste disposal landfill liners beneficial reuse of waste products municipal solid waste recovery and recycling and groundwater remediation Internationally recognized authorities in the field of environment and waste management contribute chapters in their areas of expertise This handbook is an essential source of reference for professionals and researchers in the areas of solid waste management and groundwater pollution control and as a text for advanced undergraduate and graduate courses in these fields

Natural Resources and Control Processes Lawrence K. Wang, Mu-Hao Sung Wang, Yung-Tse Hung, Nazih K. Shamma, 2016-08-10 This edited book has been designed to serve as a natural resources engineering reference book as well as a supplemental textbook This volume is part of the Handbook of Environmental Engineering series an incredible collection of methodologies that study the effects of pollution and waste in their three basic forms gas solid and liquid It complements two other books in the series including Environmental and Natural Resources Engineering and Integrated Natural Resources Management that serve as a basis for advanced study or specialized investigation of the theory and analysis of various natural resources systems This book covers the management of many waste sources including those from agricultural livestock deep wells industries manufacturing dyes and municipal solid waste incinerators The purpose of this book is to thoroughly prepare the reader for understanding the sources treatment and control methods of toxic wastes shown to have harmful effects on the environment Chapters provide information on some of the most innovative and ground breaking advances in waste characterization control treatment and management from a panel of esteemed experts

Technical Reports Series ,2004 **Control And Sensing Of Environmental Quality** R. Swarup, S. N. Mishra, V. P. Jauhari,

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