

Radioactive waste – mining & milling

- **Tailing wastes:**
 - are generated during the **milling** of ores to extract uranium and thorium.
 - have relatively low concentrations of radioactive materials with long half-lives.
 - contain radium, thorium, and small residual amounts of uranium that were not extracted during the milling process.
- The **uranium mill tailings** contain chemical and radiological material discarded from the mill. Radium and thorium, which are the dominant radioactive materials in mill tailings, have long half-lives (1,600 and 77,000 years respectively).

Longterm Radiological Aspects Of Management Of Wastes From Uranium Mining And Milling

David Kirk



Longterm Radiological Aspects Of Management Of Wastes From Uranium Mining And Milling:

Long-term Radiological Aspects of Management of Wastes from Uranium Mining and Milling OECD Nuclear Energy Agency. Committee on Radiation Protection and Public Health, OECD Nuclear Energy Agency. Radioactive Waste Management Committee, 1984 Long-term Radiological Aspects of Management of Wastes from Uranium Mining and Milling OECD Nuclear Energy Agency. Committee on Radiation Protection and Public Health, OECD Nuclear Energy Agency. Radioactive Waste Management Committee, 1984 **Long-term Radiological Aspects of Management of Wastes from Uranium Mining and Milling** OECD Nuclear Energy Agency, **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 **Long-term Radiological Aspects of Management of Wastes from Uranium Mining and Milling**, 1984 **Reclamation of the Uranium Mill Tailings at the Atlas Site, Moab, Utah**, 1999 Radioactive Waste Management, 1981 **Being Nuclear** Gabrielle Hecht, 2014-08-29 The hidden history of African uranium and what it means for a state an object an industry a workplace to be nuclear Uranium from Africa has long been a major source of fuel for nuclear power and atomic weapons including the bomb dropped on Hiroshima In 2003 after the infamous yellow cake from Niger Africa suddenly became notorious as a source of uranium a component of nuclear weapons But did that admit Niger or any of Africa s other uranium producing countries to the select society of nuclear states Does uranium itself count as a nuclear thing In this book Gabrielle Hecht lucidly probes the question of what it means for something a state an object an industry a workplace to be nuclear Hecht shows that questions about being nuclear a state that she calls nuclearity lie at the heart of today s global nuclear order and the relationships between developing nations often former colonies and nuclear powers often former colonizers Hecht enters African nuclear worlds focusing on miners and the occupational hazard of radiation exposure Could a mine be a nuclear workplace if as in some South African mines its radiation levels went undetected and unmeasured With this book Hecht is the first to put Africa in the nuclear world and the nuclear world in Africa By doing so she remakes our understanding of the nuclear age *Nuclear Safety*, 1978 **Decommissioning of Facilities for Mining and Milling of Radioactive Ores and Closeout of Residues** International Atomic Energy Agency, 1994 The purpose of this report is to provide an overview of the factors involved and assistance in planning and implementing the decommissioning of mining and milling facilities and the closeout of mines tailings piles mining debris and leach residues Restoration of the site vicinity properties and groundwater is also part of the report 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 Fourth Symposium on our Environment Hian Kee Lee,2012-12-06 Proceedings of the Fourth Symposium on Our Environment held in Singapore May 21 23 1990 Technical Reports Series ,1994

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 **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 **Energy Abstracts for Policy Analysis** ,1978 Energy Research Abstracts ,1995 **Long-term Radiation Protection Objectives for Radioactive Waste Disposal** OECD Nuclear Energy Agency. Radioactive Waste Management Committee,OECD Nuclear Energy Agency. Committee on Radiation Protection and Public Health,1984 *Radioactive Waste Management* ,1984

Chemical Separation Technologies and Related Methods of Nuclear Waste Management Gregory R. Choppin,Mikhail Kh. Khankhasayev,1999-02-28 Separation technologies are of crucial importance to the goal of significantly reducing the volume of high level nuclear waste thereby reducing the long term health risks to mankind International co operation including the sharing of concepts and methods as well as technology transfer is essential in accelerating research and development in the field The writers of this book are all internationally recognised experts in the field of separation technology well qualified to

assess and criticize the current state of separation research as well as to identify future opportunities for the application of separation technologies to the solution of nuclear waste management problems The major emphases in the book are research opportunities in the utilization of innovative and potentially more efficient and cost effective processes for waste processing treatment actinide speciation separation methods technological processing and environmental restoration

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