

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

SA Adler



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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 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 Energy Research Abstracts ,1985

Technical Reports Series ,1994 *Energy Abstracts for Policy Analysis* ,1978 **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 Uranium Mill Tailings Control Act of 1978 United States. Congress. House. Committee on Interstate and Foreign Commerce.

Subcommittee on Energy and Power,1979 *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

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