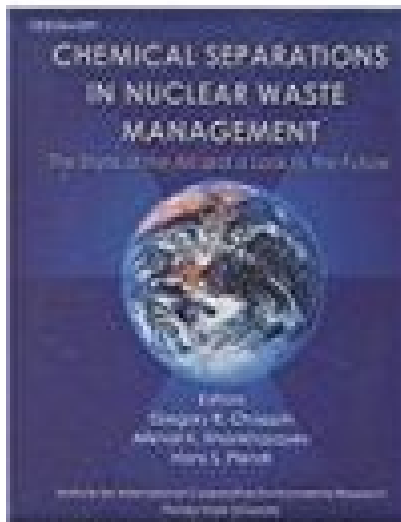


# Chemical Separations in Nuclear Waste Management The State of the Art and a Look to the Future

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## BOOK DETAILS

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## **BOOK SYNOPSIS**

The separation of radioactive waste materials into their chemical components is at the heart of all efforts to reduce the volume of nuclear waste. In *Chemical Separations in Nuclear Waste Management: The State of the Art and a Look to the Future*, the authors discuss the present state and possible future directions of separations science and technology. The book presents an overview of the environmental legacy from nuclear weapons production in the United States and the former Soviet Union, the magnitude of the cleanup efforts that are underway in both countries, and the pivotal role played in these efforts by separations science. Needs that are specific to the future development of separations science and technology are emphasized. Contents: I. Overview of Chemical Separation Methods. II. The Environmental Legacy of the Cold War: Site Cleanup in the United States. III. Environmental Impacts of Separation Technologies in Russia. IV. Non-Aqueous Separation Methods. V. U.S.-Russian Cooperative Program in Research and Development of Chemical Separation Technologies. VI. Radiation Protection Aspects of Nuclear Waste Separations. VII. Accelerator-Driven Transmutation Technologies for Nuclear Waste Treatment.

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