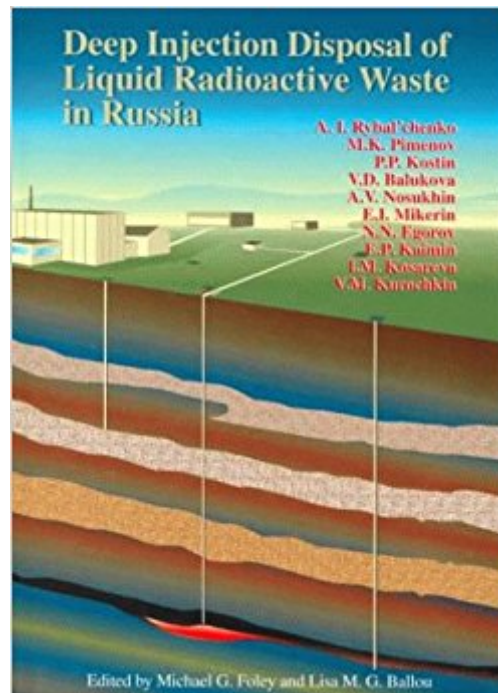




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Deep Injection Disposal Of Liquid Radioactive Waste In Russia



Synopsis

This book, published by Izdat in Moscow in 1994, tells the story of the first 40 years of work in the former Soviet Union to devise, test, and execute a program to dispose by deep injection millions of cubic meters of liquid radioactive wastes from nuclear materials reprocessing. The book explains decisions involving safety aspects, research results, and practical experience gained during the creation and operation of disposal systems. One objective for publishing the original Russian text was to set forth the results of studies and practical efforts in a form accessible to a broad audience. These studies of deep injection disposal will be useful in studying other problems worldwide involving the economic use of the space beneath the Earth's surface. The material in this book is, therefore, presented with an eye toward other possible applications. Because liquid radioactive wastes are so toxic and the decisions made are so vital, many topics in waste disposal have been examined with special care. Developments in this area will be of great interest for the disposal of nonradioactive wastes.

Book Information

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Customer Reviews

"This book is the most comprehensive account available in the West that describes the Soviet and Russian practice of disposing of radioactive wastes into deep geological formations. The authors have major technical responsibilities for the geological investigations, chemical interactions, and engineering of the facilities. They describe the geologic requirements, investigations for compliance, systems design, and results of the operation of massive systems at Tomsk-7 and Krasnoyarsk-26

for over 30 years. "Written for the general public in Russia in 1994, the book offers valuable, unique data despite the fact that the material is not exhaustive in technical detail, and some questions do remain unanswered. The book is enormously beneficial because of its historical account of the development and implementation of the deep injection of radioactive wastes that allow the Russians to 'prevent impacts of radioactivity in many regions of the country.' It also gives more details about the requirements and the implementation of such systems than were previously available in the West. It should be of interest not only to the nuclear waste community but also to those struggling with the disposal of hazardous chemicals. It deserves to be published." -- Frank L. Parker, Professor, Civil and Environmental Engineering, Vanderbilt University

Dr. Michael G. Foley, principal editor for this translation, a staff scientist at Pacific Northwest National Laboratory (operated by Battelle), is an acknowledged Western expert on the storage and migration of radioactively contaminated wastes at the former Soviet Union's principal nuclear-materials reprocessing sites. Dr. Foley has published numerous reports, journal articles, and presentations with his Russian counterparts, and he has traveled to Russia to participate in joint field-characterization activities to better understand the migration of radioactive contaminants at the sites.

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