



Progress, Challenges, and Opportunities for Converting U.S. and Russian Research Reactors: A Workshop (Paperback)

By and Opportunities for Converting U.S. and Russian Reactors from Highly Enriched to Low Enriched Uran, Nuclear and Radiation Studies Board, Division on Earth and Life Studies

National Academies Press, United States, 2012. Paperback. Book Condition: New. 226 x 152 mm. Language: English . Brand New Book. Highly enriched uranium (HEU) is used for two major civilian purposes: as fuel for research reactors and as targets for medical isotope production. This material can be dangerous in the wrong hands. Stolen or diverted HEU can be used-in conjunction with some knowledge of physics-to build nuclear explosive devices. Thus, the continued civilian use of HEU is of concern particularly because this material may not be uniformly well-protected. To address these concerns, the National Research Council (NRC) of the U.S. National Academies and the Russian Academy of Sciences (RAS) held a joint symposium on June 8-10, 2011. Progress, Challenges, and Opportunities for Converting U.S. and Russian Research Reactors summarizes the proceedings of this joint symposium. This report addresses: (1) recent progress on conversion of research reactors, with a focus on U.S.- and R.F.-origin reactors; (2) lessons learned for overcoming conversion challenges, increasing the effectiveness of research reactor use, and enabling new reactor missions; (3) future research reactor conversion plans, challenges, and opportunities; and (4) actions that could be taken by U.S. and Russian organizations to promote conversion. The agenda for...

Reviews

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