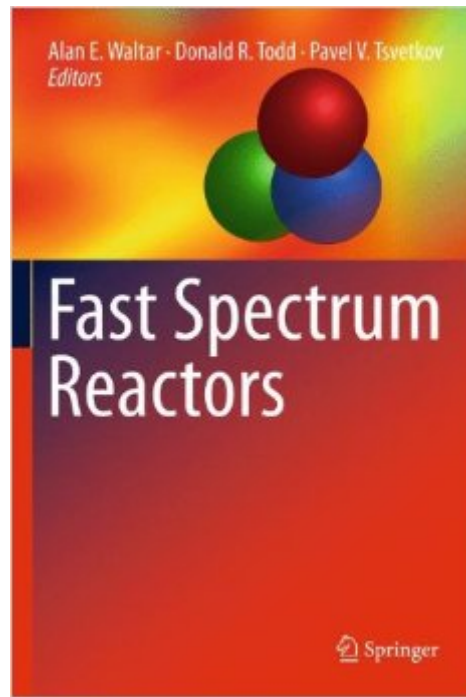


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Fast Spectrum Reactors



Synopsis

This book is a complete update of the classic 1981 FAST BREEDER REACTORS[®] textbook authored by Alan E. Waltar and Albert B. Reynolds, which , along with the Russian translation, served as a major reference book for fast reactors systems. Major updates include transmutation physics[®] (a key technology to[®] substantially[®] ameliorate[®] issues associated with the storage of high-level nuclear waste), advances in fuels and materials technology[®] (including metal fuels and cladding materials capable of high-temperature and high burnup),[®] and new approaches to reactor safety (including passive safety technology),[®] New chapters on gas-cooled and lead-cooled fast spectrum reactors are also included. Key international experts contributing to the text include Chaim Braun, (Stanford University) Ronald Omberg, (Pacific Northwest National Laboratory),[®] Massimo Salvatores (CEA, France), Baldev Raj, (Indira Gandhi Center for Atomic Research, India) , John Sackett (Argonne National Laboratory), Kevan Weaver, (TerraPower Corporation) , James Seinicki (Argonne National Laboratory). Russell Stachowski (General Electric),[®] Toshikazu Takeda (University of Fukui, Japan), and Yoshitaka Chikazawa (Japan Atomic Energy Agency).

Book Information

Hardcover: 720 pages

Publisher: Springer; 2012 edition (September 27, 2011)

Language: English

ISBN-10: 1441995714

ISBN-13: 978-1441995711

Product Dimensions: 7 x 1.6 x 10 inches

Shipping Weight: 3.2 pounds (View shipping rates and policies)

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