CONTENTS / JULY 1994—VOL. 107, NO. 1

SPECIAL ON ANP '92 CONFERENCE

1 Editorial Notes / Yoshiaki Oka, William Vogelsang

TECHNICAL PAPERS


15 Negative Void Reactivity in a Large Liquid-Metal Fast Breeder Reactor with Hydrogenous Moderator (ZrH$_{17}$) Layers / Yoshiaki Oka, Tatjana Jevremovic, Sei-ichi Koshizuka

23 Comprehensive Analysis of Passive Safety Test Phase IIB in the Fast Flux Test Facility / Akira Yamaguchi, Hajime Niwa, Mitsuaki Yamaoka, Kazuyuki Tsukimori, Yoshio Shimakawa, Hisashi Ninokata, Kiyoto Aizawa

38 Design Study of the Deep-Sea Reactor X / Hiromasa Iida, Yuichi Ishizaka, Yeong-Chan Kim, Chouichi Yamaguchi

49 Conceptual Design Features for a Passive Light Water Cooled and Moderated Pressure Tube Reactor (PLPTR) / Jan Ru Tang, Neil E. Todreas, Michael J. Driscoll

63 Reflooding of Tight Lattice Bundles / Jean-Michel Veteau, Albert Digonnet, Roger Deruaz

72 An Intelligent Man-Machine System for Future Nuclear Power Plants / Yoji Takizawa, Yoshiaki Hattori, Juichiro Itoh, Akira Fukumoto

83 Evaluation Program of the Integrated Surveillance and Control System ISACS—An Advanced Control Room Prototype / Conny B. O. Holmstroem, Tor Endestad, Knut Folesoe, Nils T. Foerdestrommen, Kjell Haugset, Frode Strand Volden

93 The Startup of the Dodewaard Natural Circulation Boiling Water Reactor—Experiences / Wim H. M. Nissen, Jaap van der Voet, Jadranko Karuza

(Continued)
TECHNICAL PAPERS

NUCLEAR REACTOR SAFETY

103 Pressurized Water Reactor Steam Line Break Analysis by Means of Coupled Three-Dimensional Neutronic, Three-Dimensional Core Thermohydraulic, and Fast Running System Codes / Hyun-Jong Paik, Patrick Raymond

REACTOR CONTROL

112 Monitoring Feedwater Flow Rate and Component Thermal Performance of Pressurized Water Reactors by Means of Artificial Neural Networks / Kadir Kavaklioglu, Belle R. Upadhyaya