

CONTENTS / JULY 1997—VOL. 119, NO. 1

TECHNICAL PAPERS

FISSION REACTORS

1 Impact of Wind Velocity on the Performance of the RVACS Decay Heat Removal System / Constantine P. Tzanos

HEAT TRANSFER AND FLUID FLOW

- 11 Turbulence Prediction in Two-Dimensional Bundle Flows Using Large-Eddy Simulation / Yassin A. Hassan, Wael A. Ibrahim
- 29 Simulation of Loss of the Residual Heat Removal System of BETHSY Integral Test Facility Using CATHARE Thermal-Hydraulic Code / Yassin A. Hassan, Andrey A. Troshko

RADIATION PROTECTION

38 Modeling Gamma-Ray Dose Rate from a Spent Pressurized Water Reactor Fuel Assembly / Ahmet Bozkurt, Nicholas Tsoulfanidis

REACTOR CONTROL

- 48 Hypermedia Integration of Information Resources for Nuclear Plant Operations / Lefteri H. Tsoulkalas, Robert E. Uhrig
- 63 A Personal Computer-Based On-Line Signal Validation System for Nuclear Power Plants / Ali S. Erbay, Belle R. Upadhyaya
- 76 Survey of Artificial Intelligence Methods for Detection and Identification of Component Faults in Nuclear Power Plants / Jaques Reifman

TECHNICAL NOTE

HEAT TRANSFER AND FLUID FLOW

98 Modification of Condensation Heat Transfer Model of RELAP5/MOD3.1 for the Simulation of Secondary Condensers / Hyoung Tae Kim, Hee Cheon No