

CONTENTS / SEPTEMBER 1979—VOL. 45, NO. 2

TECHNICAL PAPERS

REACTORS

- 113 Neutronic Performance of Fusion Reactor Blankets with Different Coolants and Structural Arrangements / J. Chao, B. B. Mikić, N. E. Todreas
- 121 Performance Test of the Upper Head Injection System at the ROSA-II Test Facility / K. Tasaka, H. Adachi, M. Sobajima, K. Soda, M. Suzuki, M. Okazaki, M. Shiba
- 140 Lattice Calculations and Three-Dimensional Effects in a Laser Fusion-Fission Reactor / Magdi M. H. Ragheb, Said I. Abdel-Khalik, Mahmoud Youssef, Charles W. Maynard

RADIOACTIVE WASTE

153 Highly Compacted Sodium Bentonite for Isolating Rock-Deposited Radioactive Waste Products / Roland Pusch

MATERIALS

- 158 Measurements of Hydrogen Concentration in Liquid Sodium by Using an Inert Gas Carrier Method / Toshio Funada, Isao Nihei, Shunichi Yuhara, Takashi Nakasuji
- 166 Experimental Investigation of Various Pellet Geometries to Reduce Strains in Zirconium Alloy Cladding / T. J. Carter

INSTRUMENTS

177 Neutron Gauge for Measurement of High Void Fraction in Water-Steam Mixtures / Franco Vittorio Frazzoli, Alberto Magrini

RADIATION

183 Tritium Levels in Urine of Occupationally Exposed Persons Caused by Different Types of Working Conditions / K. Irlweck, H. Sorantin

(Continued)

CONTENTS / SEPTEMBER 1979—VOL. 45, NO. 2

(Continued)

ANALYSIS

188 Thermal Analysis of Ammonium Diuranate / C. N. Turcanu, R. Deju

TECHNICAL NOTES

FUELS

- 193 Thermal-Neutron Flux Depression in Cylindrical UO₂ Fuel Rods / James E. Gibson, J. N. Anno
- 195 Concentric-Sphere Design for Spacing of Tag-Gas Isotopic Ratios / Kenny C. Gross

DEPARTMENTS

107 Authors