TECHNICAL PAPERS

281  NEPTUNE: A New Software Platform for Advanced Nuclear Thermal Hydraulics
     Antoine Guelfi, Dominique Bestion, Marc Boucker, Pascal Boudier, Philippe Fillion, Marc Grandotto, Jean-Marc Hérard, Eric Hervieu, Pierre Péturaud

325  Spatial Finite-Element Lumping Techniques for the Quadrilateral Mesh $S_n$ Equations in $X$-$Y$ Geometry
     Jim E. Morel, James S. Warsa

343  Analytical Calculation of the Average Dancoff Factor for Prismatic High-Temperature Reactors
     Alberto Talamo

357  New Nuclear Data Libraries for Lead and Bismuth and Their Impact on Accelerator-Driven Systems Design
     A. J. Koning, M. C. Duijvestijn, S. C. van der Marck, R. Klein Meulekamp, A. Hogenbirk

391  Evaluation of the $^{238}$U Neutron Cross Section in the Unresolved Resonance Range
     Arnaud Courcelle, Hervé Derrien, Luiz C. Leal, Nancy M. Larson

403  Unbiased Monte Carlo Estimation of the Reciprocal of an Integral
     Thomas E. Booth

TECHNICAL NOTE

408  The Common Properties of the “Fertile” Isotopes
     Y. Ronen

410  VOLUME 156 AUTHOR AND SUBJECT INDEXES