

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 170, NUMBER 1, JANUARY 2012

CONTENTS

TECHNICAL PAPERS

- | | | |
|----|---|---|
| 1 | Approximate Solution and Application of the Survival Probability Diffusion Equation | <i>Scott D. Ramsey,
Gregory J. Hutchens</i> |
| 16 | Proliferation-Resistant Fuel for CANDU Reactors | <i>Yigal Ronen, M. Aboudy, D. Regev</i> |
| 27 | Chaotic Data Encryption for Long-Distance Monitoring of Nuclear Reactors | <i>Günyaz Ablay, Can Emre Koksall,
Tunc Aldemir</i> |
| 44 | Measurement of $^{232}\text{Th}(n,\gamma)^{233}\text{Th}$, $^{98}\text{Mo}(n,\gamma)^{99}\text{Mo}$, $^{186}\text{W}(n,\gamma)^{187}\text{W}$, $^{115}\text{In}(n,\gamma)^{116\text{m}}\text{In}$, and $^{92}\text{Mo}(n,p)^{92\text{m}}\text{Nb}$ Cross Sections in the Energy Range of 1.6 to 3.7 MeV | <i>Megha Bhike, B. J. Roy, A. Saxena,
R. K. Choudhury, S. Ganesan</i> |
| 54 | Peelle's Pertinent Puzzle: A Fake Due to Improper Analysis | <i>Denise Neudecker,
Rudolf Frühwirth, Helmut Leeb</i> |
| 61 | Studies on Production of Neutrons in the Spallation Reactions Using the Monte Carlo Code MCNPX | <i>Heba Louis, Esmaat Amin,
Moustafa Aziz, Ibrahim Bashter</i> |

TECHNICAL NOTES

- | | | |
|----|--|---|
| 66 | Correcting the Cusping Problem in Three-Dimensional Transients Through NEM Modification | <i>Zelmo Rodrigues de Lima,
Aquilino Senra Martinez,
Fernando Carvalho da Silva,
Antonio Carlos Marques Alvim</i> |
| 75 | On the Method ASCM for the Solution of the External Source Problem in a Slightly Subcritical Reactor | <i>Sherly Ray, R. S. Modak</i> |
| 87 | Cross-Section Uncertainty Propagation in the Multigroup Slowing-Down Equations Using Probability Table Formalism | <i>Cheikh M. Diop,
Mireille Coste-Delclaux,
Sébastien Lahaye</i> |
| 98 | Highly Efficient, Exact Quadratures for Three-Dimensional Discrete Ordinates Transport Calculations | <i>Cory D. Ahrens</i> |