

nuclear technology®

CONTENTS / FEBRUARY 1975—VOL. 25, NO. 2

MATERIALS DOSIMETRY

- 177 Preface: Data Development and Testing for Fast Reactor Dosimetry /
W. N. McElroy

TECHNICAL PAPERS

- 180 Fuels and Materials Fast-Reactors Dosimetry Data Development and Testing /
W. N. McElroy, L. S. Kellogg
- 224 Preparation and Characterization of Neutron Dosimeter Materials /
H. L. Adair, E. H. Kobisk
- 237 Measurement of Absolute Fission Rates / *J. A. Grundl, D. M. Gilliam, N. D. Dudey, R. J. Popek*
- 258 Evaluated Decay Scheme Data / *R. G. Helmer, R. C. Greenwood*
- 274 Nonfission Reaction Rate Measurements / *R. C. Greenwood, R. G. Helmer, J W Rogers, N. D. Dudey, R. J. Popek, L. S. Kellogg, W. H. Zimmer*
- 289 High Flux Level Reaction Rate Measurements / *W. H. Zimmer, R. R. Heinrich, L. S. Kellogg, W. Y. Matsumoto*
- 294 Fission-Product-Rate Measurements and Yields / *N. D. Dudey, R. J. Popek, R. C. Greenwood, R. G. Helmer, J W Rogers, L. S. Kellogg, W. H. Zimmer*
- 305 Helium Production Cross Section of Boron for Fast-Reactors Neutron Spectra / *Harry Farrar, IV, W. N. McElroy, E. P. Lippincott*
- 330 CFRMF Neutron Field Flux Spectral Characterization / *J W Rogers, D. A. Millsap, Y. D. Harker*
- 349 The Secondary Intermediate-Energy Standard Neutron Field at the MOL-ΣΣ Facility / *A. Fabry, G. De Leeuw, S. De Leeuw*
- 376 ENDF/B File for Dosimetry Applications / *B. A. Magurno, O. Ozer*
- 381 The Central Neutron Spectrum of the Fast Critical Assembly BIG-TEN /
E. J. Dowdy, E. J. Lozito, E. A. Plassmann
- 390 Analysis of Dosimetry Measurements in EBR-II / *B. R. Sehgal, R. H. Rempert*
- 406 Analysis of Burnups in EBR-II Driver-Fuel Elements / *David Meneghetti, Earl R. Ebersole, Phyllis Walker*

(Continued)

ON THIS COVER

This month's cover is taken from the paper by Dowdy et al., and shows the difference in pulse shape that forms the basis for the method of differentiating between neutrons and gamma-ray induced events.

CONTENTS / FEBRUARY 1975—VOL. 25, NO. 2

(Continued)

- 416 Measurement of Fission Product Yields and the Energy Integral Fission Cross Section of Thorium-232 in a Californium-252 Fission-Neutron Spectrum / James R. Deen, E. Linn Draper, Jr.

DEPARTMENTS

- 169 Authors

Coming: Conversion to Metric Units

The use of metric units in American Nuclear Society publications will be required after a transition period to 1977. A policy calling for the early adoption of metric units was approved by the ANS Board of Directors in October (and reported in *Nuclear News*, December, 1974, page 101). After July, 1975, metric quantities are to appear parenthetically following conventional (non-metric) quantities; and after January, 1977, metric quantities only are to be used.

Details involved in the changeover are to be worked out by the ANS Publications Committee, through a subcommittee. Chaired by *Nuclear Technology* Editor Roy G. Post, this group includes the editor of *Nuclear Science and Engineering*, Dixon Callihan; Andre Gauvenet of CEA, France; and Harold F. McDuffie of ORNL.

A basic decision on the exact units to be specified will be made soon. Strong arguments can be made for the blanket adoption of the *Système International d'Unités*; however, there are questions about completeness, convenience and flexibility of these units.

Advice of the ANS membership on this is sought, and the views and advice of ANS journal authors and readers also is earnestly solicited. An announcement regarding the definition of units to be used will be made early in 1975 so that the July, 1975 schedule date can be met.

Roy G. Post, Editor