

Memorial Institute. For the past 11 years, he has been interested in nuclear materials. Most of his research has been on graphite, and he has published extensively in this field. Editor of a recent book, *Nuclear Graphite*, (Academic Press, 1962), he was a delegate to the 1958 and 1964 Geneva Conferences and has served as an advisor to the AEC on graphite problems on a number of occasions. Prior to his present position, he was a research associate at the University of Minnesota. He received a PhD degree (physical chemistry) from Washington State University in 1953 and a BA from Whitman College in 1949.

S. H. Bush is consultant to the Director of the Pacific Northwest Laboratory. He has spent the past 12 years in the field of nuclear materials, including irradiation effects, fabrication processes, and nuclear fuels. Major contributions include chapters in *Materials Volume of the Reactor Handbook*, papers at the Paris Fuel Element Conference in 1957 and Vienna Conference on Fabrication Processes in 1960, and the ASM-AEC Monograph, *Irradiation Effects on Cladding and Structural Materials*. Active on the Editorial Advisory Board of *NUCLEAR APPLICATIONS*, he received PhD (1953), MS (1950), and bsk (1948) degrees in Metallurgical Engineering from the University of Michigan.

NEWTON SHOULD SEE THIS!

Title Fission Product Yields and Their Mass Distribution

Authors Yu. A. Zysin, A. A. Lbov, and L. I. Sel'chenkof

Publisher Consultants Bureau Enterprises, Inc., 1965
(translated from Russian)

Pages 121

Price \$15.00

Reviewer Seymour Katcoff

This little reference book consists mainly of a collection of tables. These record the yields of products obtained from spontaneous fission and from the fission of heavy elements induced by neutrons, x rays, protons, deuterons, and alpha particles. Bombarding energies up to about 100 MeV are included. The tables are arranged in a clear and systematic way. It is convenient to have all the data of this kind collected from the literature into one place.

The virtues of this book are outweighed by several serious shortcomings. A great deal of obsolete and superseded data is included together with (and occasionally instead of) more accurate results. No distinction is made between values that appeared in earlier critical compilations and those given in original research reports.

Thus several values are frequently given for a single fission yield determination. In common with many other data compilations, this one also is rapidly becoming obsolete. The most recent references are dated 1962. A substantial body of new fission yield data has appeared since then. The coverage of the published literature up to 1962 is adequate; however, no reference at all is made to the many AEC reports and PhD theses. Inclusion of some data from obscure Russian sources in part compensates for this deficiency. Among the occasional errors found in this book, the most amusing appear in the tabulation of decay chains which was copied from a previous compilation: several nuclides are shown decaying to a rare gas isotope + Newton!

The \$15.00 price for this 121-page book is outrageous. Translation costs must have been at a minimum because less than 20% of the volume consists of text. The bulk of the data appeared in English originally. Certainly the talents and resources of Consultants Bureau could be better spent translating significant and original Russian books and periodicals.

Seymour Katcoff is a Senior Chemist in the Chemistry Department of Brookhaven National Laboratory, where he has been since 1948. A foremost authority on fission product radiochemistry, in general, and fission yield measurements, in particular, he spent the war years at the Metallurgical Laboratory, Chicago and at Los Alamos. His PhD degree (physical chemistry, 1944) is from the University of Chicago.

WORDS ON WASTE

Title Management of Radioactive Waste

Author C. A. Mawson

Publisher D. Van Nostrand Co., Inc., 1965

Pages ix + 196

Price \$6.95

Reviewer R. Louis Bradshaw

The author of this book is Head, Environmental Research Branch, Atomic Energy of Canada, Limited, Chalk River Nuclear Laboratories, a position which he has held since 1956. In both this and his previous positions he has been directly involved with waste management.

In the words of the author, "The object of this book is to describe, as far as possible in nontechnical language, the nature of the waste management problem, to show how this problem is being met at the present time, and to indicate the lines of development most likely to be followed in the future. . . It is hoped that this book will provide information suitable for preparing students for