CONTENTS

EUGENE E. DRUCKER AND WILLIAM D. WALLACE. Determination of Reactor Power by Coolant Activity Monitoring
R. B. Gordon. Metallurgical Problems in Fabrication of Zirconium-Clad Fuel Elements for Pressurized Water Reactors
J. H. KITTEL AND S. H. PAINE. Effects of High Burnup on Natural Uranium
Carl N. Klahr. Calculations of Neutron Distributions by the Methods of Stochastic Processes
I. E. Dayton and W. G. Pettus. The Effective Resonance Integral of Thorium and Thorium Oxide
WM. HOWARD ARNOLD, JR. Worths of Black Control Rods
James J. Barker. The Efficiency of Composite Fins
P. L. Hofmann and M. L. Storm. Two-Dimensional (r, z) Multigroup Calculation for an Intermediate Spectrum Critical Assembly 313
G. W. STUART AND R. W. WOODRUFF. Method of Successive Generations 339
Letter to the Editors Melvin Reier. The Age of Polonium-Boron Neutrons in Water 374
American Nuclear Society News
Published monthly at Mt. Royal and Guilford Aves., Baltimore, Md., for Academic Press Inc., 111 Fifth Avenue, New York 3, N. Y. During 1958, Volumes 3 and 4, will be published. Price of each volume: \$12.50. Subscription orders should be sent to the publishers. Notice of change of address must be received two months prior to the date of issue. Include both old and new addresses. For Member Subscriptions: Notice should be sent to the Secretary of the Society, P. O.
Box 963, Oak Ridge, Tennessee.
For Non-member Subscriptions: Notice should be sent to the publishers.

Second-class mail privileges authorized at Baltimore, Md.