

CONTENTS

F. J. DAVIS AND P. W. REINHARDT. Instrumentation in Aircraft for Radiation Measurements.....	713
C. D. PETRIE, M. L. STORM, AND P. F. ZWEIFEL. Calculation of Thermal Group Constants for Mixtures Containing Hydrogen.....	728
N. C. FRANCIS, M. L. STORM, AND P. F. ZWEIFEL. Neutron Age in Diphenyl.....	745
T. J. NEUBERT AND R. B. LEES. Stored Energy in Neutron-Bombarded Graphite.....	748
G. I. CATHERS. Uranium Recovery for Spent Fuel by Dissolution in Fused Salt and Fluorination.....	768
T. K. BIERLEIN AND D. R. GREEN. The Diffusion of Uranium into Aluminum.....	778
ROBERT C. ALLEN. The Interaction of 0.15- to 1.0-Mev Neutrons with U-238, U-235, and Pu-239.....	787
The Aircraft Reactor Experiment	
R. C. BRIANT AND ALVIN M. WEINBERG. Molten Fluorides as Power Reactor Fuels.....	797
E. S. BETTIS, R. W. SCHROEDER, G. A. CRISTY, H. W. SAVAGE, R. G. AFFEL, AND L. F. HEMPHILL. The Aircraft Reactor Experiment—Design and Construction.....	804
W. K. ERGEN, A. D. CALLIHAN, C. B. MILLS, AND DUNLAP SCOTT. The Aircraft Reactor Experiments—Physics.....	826
E. S. BETTIS, W. B. COTTRELL, E. R. MANN, J. L. MEEM, AND G. D. WHITMAN. The Aircraft Reactor Experiment—Operation.....	841
American Nuclear Society News.....	854
Announcement.....	855
Author Index.....	856
General Subject Index.....	858

Published bimonthly at Mt. Royal and Guilford Aves., Baltimore, Md., for
Academic Press Inc.,

111 Fifth Avenue, New York 3, N. Y.

Volume 1, 1956 (6 issues), \$10.00. Single issues, \$2.50.

Volume 2, 1957, \$10.00, Single issues, \$2.00.

During 1958, Volumes 3 and 4 (6 issues each volume) 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.