

## CONTENTS

LAWRENCE DRESNER. Calculation of Neutron Radiative Capture Cross Sections.....	103
J. HALPERIN, R. W. STOUGHTON, C. M. STEVENS, D. E. FERGUSON, AND D. C. OVERHOLT. An Effective Capture Cross Section of $\text{Np}^{239}$ for Thermal Reactor Neutrons.....	108
R. E. PETERSON AND G. A. NEWBY. An Unreflected U-235 Critical Assembly.....	112
B. C. CERUTTI, H. V. LICHTENBERGER, D. OKRENT, R. E. RICE, AND F. W. THALGOTT. ZPR-III, Argonne's Fast Critical Facility.....	126
JACK CHERNICK. Small Liquid Metal Fueled Reactor Systems.....	135
A. SIMON AND C. E. CLIFFORD. The Attenuation of Neutrons by Air Ducts in Shields.....	156
M. TRESHOW. A Preliminary Study of Superheating Boiling Reactors..	167
G. S. BRUNSON, E. N. PETTITT, AND R. D. McCURDY. Delayed Neutron Yields in Pu, U-233, U-238, and Th Relative to Yield in U-235.....	174
JOHN A. MARTIN AND FARNO L. GREEN. Cyclotron Target for the Irradiation of Chemical Compounds.....	185
ANNOUNCEMENT.....	191

Published bimonthly by Academic Press Inc.,  
125 East 23 Street, New York 10, N. Y.

Volume 1, 1956 (6 issues), \$10.00. Single issues, \$2.00.

Subscriptions should be sent to the publishers.

Please notify publishers of change of address two months in advance  
and indicate old and new address.