CONTENTS

Editorial.	i
E. E. Gross and J. H. Marable. Static and Dynamic Multiplication Factors and Their Relation to the Inhour Equation	
T. Teichmann. Slowing Down of Neutrons	292
W. R. Conkie. Velocity Dependent Neutron Transport Theory	295
W. Häfele and L. Dresner. On the Theory of the Diffusion Cooling Effect in Homogeneous and Heterogeneous Assemblies	304
James J. Gumbleton, Farno L. Green, and William J. Mayer. Transient Piston Ring Wear in Automotive Engines Using Fe ⁵⁹	313
Farno L. Green and A. Somerville. Continuous Counting of Gamma Rays from Hot Radioactive Liquids	320
H. T. Russell. Isolation of Carrier-Free Mn ⁵⁴ and I ¹²⁵ from Cyclotron Targets	323
P. S. Baker, F. R. Duncan, and L. O. Love. Cyclotron Targets Using Enriched Stable Isotopes	325
Frederick G. Hammitt, Evan C. Kovacic, and Frederick J. Leitz. The Fission Gas Problem for Mobile Fuel Fast Reactors	327
Kehichi Mochizuki and Atushi Takeda. An Analysis of Neutron Flux Spatial Oscillation Due to Xenon Build-Up in a Large Power Reactor Core	336
D. A. Kottwitz. Thermal Neutron Flux Spectrum in a Medium with a Temperature Discontinuity.	345
G. J. Fischer. Neutron Energy Spectrum Measurements in Unmoderated Assemblies	355
H. H. Hummel and D. Meneghetti. Diffusion of Intermediate Energy Neutrons into a Thick Resonance Absorber	363
B. S. Finn. Relationships between Reactivity Changes, Buckling Changes, and Periods in a Heavy Water Reactor	369
JOHN J. NEWGARD AND MYRON M. LEVOY. Considerations in the Design of a Nuclear Rocket	377
Farno L. Green and John A. Martin. Maximizing Production of Radioisotopes in a Cyclotron	387
LETTER TO THE EDITOR	
P. G. ALINE, P. E. NOVAK, B. WOLFE. On the Fast Effect in Beryllium	392
Indexed in "Engineering Index" and Abstracted in "Nuclear Science Abstracts"	
Published monthly at Mt. Royal and Guilford Aves., Baltimore, Md., for Academic Press Inc., 111 Fifth Avenue, New York 3, N. Y.	

During 1960, Volumes 7 and 8 will be published. Price of each volume: \$19.50.

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 American Nuclear Society, John Crerar Library, 86 East Randolph Street, Chicago 1, Illinois.

For Non-member Subscriptions: Notice should be sent to the publishers.

Second-class mail postage paid at Baltimore, Md.

Advertising Representatives

Emery-Harford Publishing Associates 400 Madison Avenue New York, New York

Jim Summers and Associates 35 East Wacker Drive Chicago 1, Illinois

Chris Dunkle and Associates 740 South Western Avenue Los Angeles 5, California

420 Market Street San Francisco 11, Calif.