

CONTENTS

ERNEST E. HILL AND FREDERICK J. SHON. Fuel Programming in Pool-Type Research Reactors of Intermediate Power Level.....	105
O. D. SIMPSON AND R. P. SCHUMAN. Low Energy Total Neutron Cross Section of Pu-241.....	111
R. KLADNIK AND I. KUŠČER. Milne's Problem for Thermal Neutrons in a Nonabsorbing Medium...	116
GERALD HOUGHTON. Some Theoretical Aspects of Vapor Void Formation in Heated Vertical Channels.	121
WILLIAM G. PETTUS. Neutron Age Measurements in Metal-Water Lattices.....	129
HENRI B. SMETS. The Effect of Burnable Fission Products in Power Reactor Kinetics.....	133
A. G. KLEIN. Logarithmic Rate Meters and Period Meters. A Theoretical Study of Noise and Transient Response.....	142
DONALD L. KELLER, LEWIS E. HULBERT, AND BRUCE W. DUNNINGTON. Irradiation Effects in Dispersions.....	154
J. DOUGLAS BALCOMB, HOWARD B. DEMUTH, AND ELIAS P. GYFTOPOULOS. A Crosscorrelation Method for Measuring the Impulse Response of Reactor Systems.....	159
HARVEY J. AMSTER AND ROBERT C. GAST. The Analysis of Foil Activation Experiments in Infinite Homogeneous Media.....	167
J. A. DE JUREN, M. REIER, AND R. W. STOOKSBERRY. Spatial Distribution in Water at Indium Resonance of Neutrons from a 1.4 Mev D-D Source.....	179
HARVEY J. AMSTER AND ROBERT C. GAST. Analysis of A Foil Activation Experiment for a D-D Neutron Source in Water.....	192
D. R. BACH, S. I. BUNCH, R. J. CERBONE, AND R. E. SLOVACEK. Prompt Neutron Decay Constants in Multiplying Hydrogenous Media.....	199
S. SANATANI AND L. S. KOTHARI. Effect of Bragg Cutoff on the Diffusion of Thermal Neutrons in a Finite Solid Medium.....	211
JOHN G. BURR, in collaboration with J. M. SCARBOROUGH, J. D. STRONG, R. I. AKAWIE, AND R. A. MEYER. Isotopic and Scavenger Evidence for Radiolysis Mechanisms in Aromatic Hydrocarbons.....	218
LETTERS TO THE EDITORS	
FRANK KERZE, JR. <i>Re:</i> Solid State Electrolysis in Yttrium Metal.....	227
BERTRAM WOLFE. A Generalized Equivalence Theorem for Resonance Escape in Heterogeneous Systems.....	227
R. D. JAIN AND S. V. LAWANDE. The Effect of Bragg Cutoff on the Diffusion of Thermal Neutrons in a Semi-Infinite Slab of Beryllium.....	228
Book Reviews.....	230

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 1961, Volumes 9, 10, and 11 will be published. Price of each volume remains at \$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

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

Chris Dunkle and Associates
740 South Western Avenue, Los Angeles 5, California or
420 Market Street, San Francisco 11, California