

CONTENTS

WENDELL C. OLSON, RICHARD J. LARSON, AND HARRY GOLDSTEIN. Measurement of Air Blast Effects from Simulated Nuclear Reactor Core Excursions	199
MARK NELKIN. The Decay of a Thermalized Neutron Pulse	210
MORTON R. FLEISHMAN AND HARRY SOODAK. Methods and Cross Sections for Calculating the Fast Effect	217
H. ÜBERALL. Neutron Absorption by Control Rods of Varying Transparency	228
JAMES R. MELCHER. A Useful Analogy for Single-Group Neutron Diffusion Theory	235
L. S. KOTHARI AND P. G. KHUBCHANDANI. Slowing Down of Neutrons in Graphite Close to Thermal Equilibrium	240
DONALD W. BELL. Correlation of Burnout Heat-Flux Data at 2000 psia	245
A. R. VERNON. Calculation of the Effective Resonance Integral of U^{238}	252
LAWRENCE DRESNER. Comparison Theorems for the Estimation of Average Collision Probabilities. II	260
JUDSON HARDY, JR., G. G. SMITH, AND D. KLEIN. Experimental Check of a Monte Carlo-Calculated Distribution of Resonance Neutron Capture in a Gold Rod	263
JEFFERY LEWINS. The Time-Dependent Importance of Neutrons and Precursors	268
LETTERS TO THE EDITORS	
J. THIE. A Method for Interpolation in Moderator to Fuel Ratio Dependent Bucklings	275
S. KAPLAN AND S. G. MARGOLIS. Delayed Neutron Effects During Flux Tilt Transients	276
LEO SEREN AND DENIS TSAKARISSIANOS. Analysis of Neutron Flux Data for Accurate Determination of Relaxation Length	277

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.