The Elements of
NUCLEAR REACTOR THEORY

By SAMUEL GLASSTONE
Consultant, Atomic Energy Commission

and MILTON C. EDLUND
Physicist, Oak Ridge National Laboratories

FOREWORDS BY GORDON DEAN, FORMER CHAIRMAN, U. S. ATOMIC ENERGY COMMISSION
and ALVIN M. WEINBERG, RESEARCH DIRECTOR, OAK RIDGE NATIONAL LABORATORIES

Written for scientists, engineers and advanced students inter-
ested in the field of nuclear reactors. This book explains the
physical concepts and processes involved in a nuclear chain
reaction and the methods for calculating critical conditions for
chain reacting systems. As an aid to clarity, the mathematical
development is carried out in considerable detail.

The Elements of
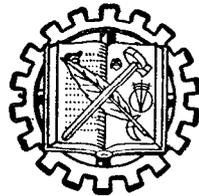
NUCLEAR REACTOR

THEORY

by

SAMUEL GLASSTONE

Consultant, United States Atomic Energy Commission

AND

MILTON C. EDLUND

Physicist, Oak Ridge National Laboratory

TWELFTH PRINTING

CONTENTS

The Elements of
NUCLEAR REACTOR THEORY

By SAMUEL GLASSTONE
Consultant, Atomic Energy Commission

and MILTON C. EDLUND
Physicist, Oak Ridge National Laboratories

Written for scientists, engineers and advanced students interested in the field of nuclear reactors. This book explains the physical concepts and processes involved in a nuclear chain reaction and the methods for calculating critical conditions for chain reacting systems. As an aid to clarity, the mathematical development is carried out in considerable detail.

The Elements of
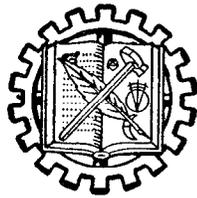
NUCLEAR REACTOR

THEORY

by

SAMUEL GLASSTONE

Consultant, United States Atomic Energy Commission

AND

MILTON C. EDLUND

Physicist, Oak Ridge National Laboratory

D. VAN NOSTRAND COMPANY, INC.

PRINCETON, NEW JERSEY

TORONTO LONDON

NEW YORK

CONTENTS