

CONTENTS

I. GENERAL PROPERTIES OF THE ATOMIC NUCLEUS	1
II. THE FORCES BETWEEN NUCLEONS	32
III. THEORIES OF NUCLEAR FORCES	53
IV. GENERAL THEORY OF NUCLEAR STRUCTURE	83
V. THE PROCESS OF β -TRANSFORMATION	112
VI. SPONTANEOUS DISINTEGRATION OF ATOMIC NUCLEI	146
VII. ELECTROMAGNETIC RADIATION OF NUCLEI	178
VIII. NUCLEAR COLLISIONS	207
IX. NUCLEAR TRANSFORMATIONS	230
X. THERMONUCLEAR REACTIONS	264
XI. NUCLEAR CHAIN REACTIONS	317
APPENDIXES	328
INDEX OF AUTHORS	338
INDEX OF SUBJECTS	342

LIST OF PLATES

Plate I faces page 32, Plates II-V are between
pages 256 and 257.