



## CONTENTS

	PAGE
REACTIONS OF $\pi$ -MESONS WITH NUCLEONS, <i>E. M. Henley, M. A. Ruderman, and J. Steinberger</i> . . . . .	1
MESONS AND HEAVY UNSTABLE PARTICLES IN COSMIC RAYS, <i>L. Leprince-Ringuet</i> . . . . .	39
EXTRANUCLEAR INTERACTIONS OF ELECTRONS AND GAMMA RAYS, <i>D. R. Corson and A. O. Hanson</i> . . . . .	67
NEUTRON OPTICS, <i>D. J. Hughes</i> . . . . .	93
THE STANDARDIZATION OF NEUTRON MEASUREMENTS, <i>A. Wattenberg</i> . . . . .	119
PHOTOGRAPHIC EMULSIONS, <i>Y. Goldschmidt-Clermont</i> . . . . .	141
RADIATION CHEMISTRY, <i>J. L. Magee</i> . . . . .	171
CHEMICAL EFFECTS OF NUCLEAR TRANSFORMATIONS, <i>J. E. Willard</i> . . . . .	193
SEPARATION TECHNIQUES USED IN RADIOCHEMISTRY, <i>P. C. Stevenson and H. G. Hicks</i> . . . . .	221
ISOTOPE EFFECTS IN CHEMICAL REACTIONS, <i>P. E. Yankwich</i> . . . . .	235
RADIATION DOSIMETRY AND PROTECTION, <i>L. D. Marinelli</i> . . . . .	249
VERTEBRATE RADIOBIOLOGY: EMBRYOLOGY, <i>R. Rugh</i> . . . . .	271
VERTEBRATE RADIOBIOLOGY: HISTOPATHOLOGY AND CARCINOGENESIS, <i>J. Furth and A. C. Upton</i> . . . . .	303
CELLULAR RADIOBIOLOGY, <i>A. H. Sparrow and F. Forro, Jr.</i> . . . . .	339
PRACTICAL ASPECTS OF RADIATION INJURY, <i>L. H. Hempelmann and J. G. Hoffman</i> . . . . .	369
INDEXES . . . . .	393