



CONTENTS

FISSION IN 1939: THE PUZZLE AND THE PROMISE, <i>John Archibald Wheeler</i>	xiii
LIGHT QUARK MASSES AND CHIRAL SYMMETRY, <i>John F. Donoghue</i>	1
HEAVY-PARTICLE RADIOACTIVITY ($A > 4$), <i>P. Buford Price</i>	19
HIGHEST ENERGY COSMIC RAYS, <i>J. Wdowczyk and A. W. Wolfendale</i>	43
SEARCHES FOR FRACTIONAL ELECTRIC CHARGE IN TERRESTRIAL MATERIALS, <i>P. F. Smith</i>	73
NUCLEAR SYSTEMS WITH STRANGENESS, <i>Robert E. Chrien and Carl B. Dover</i>	113
SOME TECHNICAL ISSUES IN ARMS CONTROL, <i>H. L. Lynch, R. Meunier, and D. M. Ritson</i>	151
D MESONS, <i>Rollin J. Morrison and Michael S. Witherell</i>	183
SUPERNOVAE AND THE HADRONIC EQUATION OF STATE, <i>S. H. Kahana</i>	231
DEEP INELASTIC LEPTON-NUCLEON SCATTERING, <i>Sanjib R. Mishra and Frank Sciulli</i>	259
MUON-CATALYZED FUSION, <i>W. H. Breunlich, P. Kammel, J. S. Cohen, and M. Leon</i>	311
EXPERIMENTAL TESTS OF PERTURBATIVE QCD, <i>G. Altarelli</i>	357
EXOTIC LIGHT NUCLEI, <i>Claude Détraz and David J. Vieira</i>	407
SOLAR NEUTRINOS, <i>Raymond Davis, Jr., Alfred K. Mann, and Lincoln Wolfenstein</i>	467
CUMULATIVE INDEXES	
Contributing Authors, Volumes 30–39	507
Chapter Titles, Volumes 30–39	509