

CONTENTS

THE PRESENT STATUS OF THE QUANTUM THEORY OF LIGHT <i>By M. W. Evans and S. Jeffers</i>	1
TOPOLOGICAL ELECTROMAGNETISM WITH HIDDEN NONLINEARITY <i>By Antonio F. Rañada and José L. Trueba</i>	197
ELLIPSOIDS IN HOLOGRAPHY AND RELATIVITY <i>By Nils Abramson</i>	255
ASTROPHYSICS IN THE DARK: MACH’S PRINCIPLE LIGHTS THE WAY <i>By D. F. Roscoe</i>	297
A SEMICLASSICAL MODEL OF THE PHOTON BASED ON OBJECTIVE REALITY AND CONTAINING LONGITUDINAL FIELD COMPONENTS <i>By Héctor A. Múnera</i>	335
SIGNIFICANCE OF THE SAGNAC EFFECT: BEYOND THE CONTEMPORARY PHYSICS <i>By Pal R. Molnar and Milan Meszaros</i>	387
NON-ABELIAN ELECTRODYNAMICS: PROGRESS AND PROBLEMS <i>By Lawrence B. Crowell</i>	403
FLUCTUATIONAL ESCAPE AND RELATED PHENOMENA IN NONLINEAR OPTICAL SYSTEMS <i>By I. A. Khovanov, D. G. Luchinsky, R. Mannella, and P. V. E. McClintock</i>	469
BELTRAMI VECTOR FIELDS IN ELECTRODYNAMICS—A REASON FOR REEXAMINING THE STRUCTURAL FOUNDATIONS OF CLASSICAL FIELD PHYSICS? <i>By Donald Reed</i>	525
CONSTANCY OF VELOCITY OF LIGHT AND STOCHASTIC BACKGROUND <i>By Sisir Roy</i>	571

ENERGY FOR THE FUTURE: HIGH-DENSITY CHARGE CLUSTERS <i>By Harold L. Fox</i>	623
THE SUPERLUMINAL THEORY AND EFFECTS <i>By Petar K. Anastasovski and David B. Hamilton</i>	655
SUPERLUMINAL EFFECTS AND TACHYON THEORY <i>By Fabio Cardone and Roberto Mignani</i>	683
TOPOLOGICAL APPROACHES TO ELECTROMAGNETISM <i>By Terence W. Barrett</i>	699
AUTHOR INDEX	735
SUBJECT INDEX	751