CONTENTS

I. ON THE VALIDITY OF KIRCHHOFF'S LAW OF HEAT RADIATION FOR A BODY IN A NONEQUILIBRIUM ENVIRONMENT

by H. P. BALTES (Zug, Switzerland)

II. THE CASE FOR AND AGAINST SEMICLASSICAL RADIATION THEORY

by L. MANDEL (Rochester, N.Y.)

III. OBJECTIVE AND SUBJECTIVE SPHERICAL ABERRATION MEASUREMENTS OF THE HUMAN EYE

by W. M. Rosenblum and J. L. Christensen (Birmingham, Alabama)

IV. INTERFEROMETRIC TESTING OF SMOOTH SURFACES

by G. Schulz and J. Schwider (Berlin)

V. SELF FOCUSING OF LASER BEAMS IN PLASMAS AND SEMICONDUCTORS

by M. S. Sodha, A. K. Ghatak and V. K. Tripathi (New Delhi)

VI. APLANATISM AND ISOPLANATISM

by W. T. WELFORD (London)