CONTENTS

I. OPTICAL WAVEGUIDE DIFFRACTION GRATINGS: COUPLING BETWEEN GUIDED MODES

by DENNIS G. HALL (ROCHESTER, NY, USA)

II. ENHANCED BACKSCATTERING IN OPTICS

by YU.N. BARABANENKOV (MOSCOW, USSR), YU.A. KRAVTSOV (MOSCOW, USSR), V.D. OZRIN (MOSCOW, USSR) and A.I. SAICHEV (NIZHNI NOVGOROD, USSR)

III. GENERATION AND PROPAGATION OF ULTRASHORT OPTICAL PULSES

by I.P. CHRISTOV (SOFIA, BULGARIA)

IV. TRIPLE-CORRELATION IMAGING IN OPTICAL ASTRONOMY

by G. WEIGELT (BONN, FED. REP. GERMANY)

V. NONLINEAR OPTICS IN COMPOSITE MATERIALS

1. Semiconductor and Metal Crystallites in Dielectrics

by C. FLYTZANIS, F. HACHE, M.C. KLEIN, D. RICARD and PH. ROUSSIGNOL (Palaiseau, France)