

OPTICA APPLICATA

Vol. XXVI (96) No. 4

PL ISSN 0078-5466

Index 367729

A joint publication of the

INSTITUTE OF PHYSICS,
TECHNICAL UNIVERSITY
OF WROCLAW,
POLAND

&

SPIE/POLAND CHAPTER
in association with
SPIE—THE INTERNATIONAL SOCIETY
FOR OPTICAL ENGINEERING

Contents

III International Workshop on Nonlinear Optics Applications

STEGEMAN G. I., The growing family of spatial solitons	239
KRÓLIKOWSKI W., LUTHER-DAVIES B., HOLMSTROM S., AKHMEDIEV N., Propagation and collision of photorefractive screening solitons	249
MIHALACHE D., MAZILU D., CRASOVAN L.-C., TORNER L., Spatial solitons in nonlinear quadratic media: recent theoretical results	255
PESCHEL U., ETRICH C., LEDERER F., Instabilities in resonators filled with χ_2 -materials	259
AKHMEDIEV N. N., OSTROVSKAYA E. A., Counter-balance of linear and nonlinear optical activity for soliton-line pulses	267
KOBYAKOV A., LEDERER F., Photonics in quadratic nonlinear media beyond the $\chi^{(3)}$ perspective	275
ASSANTO G., HAGAN D. J., STEGEMAN G. I., VAN STRYLAND E. W., TORRUELLAS W. E., Vectorial quadratic interactions for all-optical signal processing via second-harmonic generation	285
NASALSKI W., First-order nonlinear optics — aberrationless, nonspecular and bistable effects	293
PIETRZYK M., Simulations of a pulse compression in planar waveguide	297
PETRAČEK J., Kerr induced limit of effective interaction length of photoinduced SHG	301
JĘDA W., PETYKIEWICZ J., ZAGÓRSKI A., Optical bistability in $\chi^{(2)}$ nonlinear media due to cascaded process	307
ŚWILLO M., KARPIERZ M. A., SIERAKOWSKI M., MAUCLINE I. S., MCCALLION K., JOHNSTONE W., Optical bistability in nonlinear liquid crystalline directional coupler	315
RUSEK M., Localization of light in dielectric media	321
RIVOIRE G., At the crossroads of nonlinear optics and Fourier optics	329
KITYK I. V., SAHRAOUI B., RIVOIRE G., SALLE M., KASPERCZYK J., CZERWIŃSKI M., Nonlinear optical susceptibilities of new tetrathiofulvalene derivative molecules	333
SAHRAOUI B., RIVOIRE G., SYLLA M., NGUYEN PHU X., ZAREMBA J., NGUYEN T. T., SALLE M., Degenerate four wave mixing efficiency of organic materials (tetrathiofulvalene derivatives) exhibiting linear and saturable absorption	341
EINSIEDEL H., MITTLER-NEHER S., Photothermal beam deflection techniques: useful tools for integrated optics	347
MARCINIAK M., Light propagation in optical waveguides with complex refractive indices	359
JARMOLIK A., VANDEPUTTE K., VAN HOVE A., VAN DAELE P., Effective coupling from semiconductor lasers to single mode fibers	369

JASIŃSKI J., Hybrid modes in nonlinear Kerr media	375
GNIADK K., Intensity-controlled nonreciprocal coupler	381
KARPIERZ M. A., Directional coupling for solitary waves in quadratic nonlinearity	391