

OPTICA APPLICATA

Vol. XXXI (2001) No. 3

PL ISSN 0078-5466

Index 367729

A joint publication of the

INSTITUTE OF PHYSICS,
WROCLAW UNIVERSITY
OF TECHNOLOGY,
POLAND

&

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

Contents

PLIŃSKI E.F., Spectral phenomena in CO ₂ lasers. A review	509
MAGIERA L., Use of computer algebra system for recalculation of the fifth-order aberrations of GRIN media	545
OSTROWSKI R., MARCZAK J., The 1.3 μm Q-switched Nd:YAG laser	553
YOUSEF Y.A., FATAFTAH Z., AKASHEH T.S., RAWASHDEH A.M., Design and assembly of a fast spectrophotometer system for monitoring chemical reactions	563
KASPERCZUK A., PISARCZYK T., Application of automated interferometric system for investigation of the behaviour of a laser-produced plasma in strong external magnetic fields	571
OTREMBĄ Z., KRÓL T., Light attenuation parameters of polydisperse oil-in-water emulsion	599
KOZŁOWSKI J., PATORSKI K., Fast contour tracing algorithm	611
PURA B., WIERZBICKI M., PETYKIEWICZ J., RATUSZNIK G., WRZESIŃSKI Z., Polarization bistability in a smectic-A liquid crystal	619
JABŁOŃSKI S., BADZIAK J., Focusing large-aperture beams generated by high-peak-power lasers	625
HAYAT T., AYUB M., FARID T., Scattering by a slit in an infinite conducting screen	635
LIS S., HNATEJKO Z., STRYŁA Z., Device for measurements of selective luminescence excitation spectra of europium (III) based on a nitrogen and dye laser system	643
KACZMAREK D., Backscattered electrons topographic mode problems in the scanning electron microscope	649
POKUTNYI S.I., SALEJDA W., JACAK L., MISIEWICZ J., TYC M., Giant absorption of light in quasi-zero-dimensional structures	659