CHRONICLE

Contents of the Following Issues of *Opticheskii Zhurnal* (Journal of Optical Technology)

PACS numbers: 01.10.Cr

DOI: 10.1134/S0030400X0803020X

The following papers will be published in the March issue of *Opticheskii Zhurnal* (Journal of Optical Technology), vol. 75, no. 3, 2008.

Physical Optics. Measuring the Femtosecond Pulse Parameters within a Wide Spectral Range Based on the Effect of Multiphoton Absorption in a Natural Diamond Crystal (S.V. Gagarskii and K.V. Prikhod'ko); A Method for Direct Measurement of the Doppler Shifts and Zeeman Effect from Solar Optical Digital Spectrograms and Long-Period Oscillations of Sunspots (V.I. Efremov, L.D. Parfinenko, and A.A. Solov'ev); Relationship between a Relative Interference Fringe Shift, Refractive Index of a Metal, and Light Absorption by a Semitransparent Metal Layer (E.S. Kulagin).

Computation, Design, and Manufacture of Optical Systems. A Gradient Method for the Computation of Optical Elements Forming a Preassigned Illuminance on a Curved Surface (A.A. Belousov, L.L. Doskolovich, and S.I. Kharitonov); Reciprocal Mapping of the Object Space and Visible Image Space (G.K. Potapova and M.A. Moskalenko).

Iconics: The Science of Images. Study of the Statistical Characteristics of 3D Object Envelopes (N.N. Krasil'nikov and O.I. Krasil'nikova).

Holography. Sensitivity of Volume Holographic Media (B.S. Gurevich, S.B. Gurevich, and A. Petskus); Croconic Dye as a Sensitizer of Photothermoplastic Holographic Media for the Near-IR Spectral Range (N.A. Davidenko, A.A. Ishchenko, Yu.P. Get'manchuk, N.A. Derevyanko, L.I. Kostenko, A.V. Kulinich,

V.V. Kurdyukov, E.V. Mokrinskaya, L.N. Gumenyuk, V.A. Pavlov, N.G. Chuprina, N.N. Kuranda, and S.V. Khutoryi).

Optical Instrumentation and Technology. A Series of Silicon Multiplexers for CdHgTe Photodiodes for the 8–16- μ m Spectral Range (A.I. Kozlov, I.V. Marchishin, V.N. Ovsyuk, and A.L. Aseev); A System for the Remote Optical Monitoring of the Cross Section of a Railway Aerial Contact Wire (V.S. Bazin, A.G. Verkhoglyad, I.A. Vykhristyuk, S.V. Kalichkin, V.É. Kalikin, S.N. Makarov, M.F. Stupak, and Yu.V. Chugui).

Optical Materials Science and Technology. Physicochemical Methods for Enhancing the Thermal Strength of LiYF₄:Nd Laser Crystals (A.I. Ignat'ev, N.V. Nikonov, I.V. Mochalov, E.V. Tsygankova, V.M. Reiterov, and A. Baltushka).

Practical Manufacturing Problems. A Setup for Measuring Spectral Coefficient of Directional Transmission of Large-Aperture Optical Elements (E.I. Dmitriev, O.K. Filippov, and V.G. Filippov); Optical Position Angle Sensor of the ZA-320M Automated Telescope at the Pulkovo Observatory (A.V. Devyatkin, A.P. Kulish, A.V. Shumakher, I.A. Vereshchagina, V.V. Kupriyanov, and A.S. Bekhteva).

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