

Contents

Vol. 28, No. 1, 2020

Surface Electromagnetic and Elastic Waves

- Surface Electromagnetic Waves on Planar Structures: A Review
E. A. Vinogradov 1
- Speed of Surface Elastic Wave Propagation over the Human Chest
A. I. Dyachenko, M. V. Veremyeva, and E. S. Fomina 14
-

Optical Methods of High-Precision Applied Diagnostics

- Optical Methods of Diagnostics of the Isotopic Composition of
Natural and Technological Media: A Review
V. N. Ochkin 21
- Correlation of Small-Signal Modulation with Digital Modulation
Characteristics of High-Speed Semiconductor Lasers
T. Rizk, A. Mahmoud, M. Abdel-Rahman, and M. Ahmed 49
-

Waves in Photonic Crystals

- Controlling Frequency Dispersion of a 2D Photonic Crystal by Magnetic Field
V. I. Golovanov and K. F. Shipilov 55
- Highly Birefringent Slotted Core Photonic Crystal Fiber for THz Wave Propagation
*Md. Aminul Islam, M. Rakibul Islam, Md. Moinul Islam Khan,
J. A. Chowdhury, F. Mehjabin, and Mohibul Islam* 58
-

Underwater Acoustics

- Noise-Source Detection in an Oceanic Waveguide Using Interferometric Processing
*V. M. Kuz'kin, G. A. Lyakhov, S. A. Pereselkov,
Yu. V. Matvienko, and S. A. Tkachenko* 68
- Wave Breaking Type as a Typical Sign of Nonlinear Wave
Transformation Stage in Coastal Zone
*Ya. V. Saprykina, S. Yu. Kuznetsov, O. A. Kuznetsova,
I. V. Shugan, and Yang-Yih Chen* 75
-
-