

PHYSICS OF WAVE PHENOMENA

Volume 11, Number 1, 2003

CONTENTS

Letter from the Editor

<i>F.V. Bunkin</i>	i
--------------------------	---

OPTICAL SPECTROSCOPY

Four-Photon Spectroscopy of H ₂ O, D ₂ O, and HDO Waters in Spectral Range of 0–15 cm ^{−1} <i>A.F. Bunkin and A.A. Nurmatov</i>	1
---	---

Fine Structure of Stretching OH Vibration Band in Water and Its Smoothing in Field of Laser Pulses <i>S.M. Pershin</i>	5
---	---

NONLINEAR ACOUSTICS

Phase Conjugation of Second Harmonic of Nonlinear Wave and Retrofocusing in Inhomogeneous Medium <i>A.P. Brysev, R.V. Klopotov, L.M. Krutyansky, and V.L. Preobrazhensky</i>	10
---	----

SOLITONS AND SELF-ORGANIZATION

Symmetrized Generalization of Sine-Gordon Equation: Hamiltonian Form, Solitons, and Generated Surfaces <i>G.A. Lyakhov and N.V. Suyazov</i>	15
--	----

REMOTE SENSING OF NATURAL MEDIA

Backscattering of Millimeter Radio Waves by Sea Surface Perturbed by Underwater Flow of Gas Bubbles <i>M.G. Bulatov, V.G. Pungin, M.D. Raev, E.I. Skvortsov, and Yu.A. Kravtsov</i>	25
--	----

Hydrodynamic Processes in Inhomogeneous Gravity Field of World Ocean <i>S.I. Kutakov and I.A. Maslov</i>	33
---	----

Experimental Estimation of Macroscopic Nonlocality Effect in Solar and Geomagnetic Activity <i>S.M. Korotaev, V.O. Serdyuk, Yu.V. Gorokhov, S.A. Pulinets, V.I. Nalivaiko, A.V. Novysh, S.P. Gaidash, and Kh.D. Kanonidi</i>	46
---	----

DYNAMICS OF ATMOSPHERE

Model of Wind Transport of Salt and Sand from Aral Sea Basin <i>A. Begmatov, N.T. Mamatova, and I.V. Shugan</i>	55
--	----