
Contents

Vol. 19, No. 2, 2011

Distributed worldwide by Springer. *Physics of Wave Phenomena* ISSN 1541-308X.

Electron Diffraction

- Specific Features in the Observation of Electron Diffraction
V. P. Bykov 83
-

Optical Spectroscopy

- Effect of Coatings of Silicon Solar Cells on Their Reflectance Spectra and on the Measured Values of Recombination Parameters
O. G. Koshelev and V. A. Morozova 86
- Diode-Laser Derivative Spectroscopy without Lock-in Amplifier
A. K. Chernyshov and E. A. Chernyshova 89
- Spatially Polarized Adaptive Array and Reception of Wideband Signals
G. A. Kuznetsov and N. V. Potapova 93
- Spectroscopic and Structural Properties of LiAr and LiAr₂ Molecules
N. Khelijji and H. Berriche 97
-

Nonlinear Optics

- Efficient Pulse Compression and Frequency Conversion of Phase-Modulated Laser Pulses in Engineered Quasi-Phase-Matching Gratings
U. K. Sapaev, D. B. Yusupov, and G. Assanto 107
-

Electrodynamics of Pulsed Fields

- New Method for Calculating Pulsed Electromagnetic Fields from Traveling Current Waves in Complex Wire Structures
A. A. Potapov, S. A. Podosenov, J. Foukzon, and E. R. Men'kova 112
-

Nonlinear Acoustics

- Nonlinear Sound Generation in a Resonator at Parametric and External Acoustic Excitation
V. G. Mikhalevich and V. N. Streltsov 124
-

Seismoacoustics

- Analysis of Possibilities of the Acoustic Forecast of Natural Disasters
I. A. Maslov 128
-

Solitons and Chaos

- Numerical Simulation of the Modified Korteweg–de Vries Equation
A. Biswas and K. R. Raslan 142
- Solutions of Zakharov–Kuznetsov Equation with Power Law Nonlinearity in (1+3) Dimensions
B. T. Matebese, A. R. Adem, C. M. Khalique, and A. Biswas 148
- Partial Spatial Synchronization of Chaotic Oscillations in the Ginzburg–Landau Equation
A. A. Koronovskii, N. S. Frolov, and A. E. Hramov 155
-

Errata

- Erratum: “Numerical Model of Electron Injector for a Traveling-Wave Tube Based on a Coupled-Cavity Chain” [*Physics of Wave Phenomena* 19(1), 52 (2011)]
V. M. Pikunov 159
-
-

