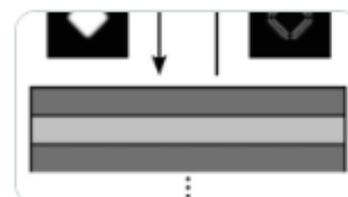


26 articles in this issue

Optical Computation of a Second-Order Mixed Derivative Using a Layered Structure

A. I. Kashapov, E. A. Bezus ... L. L. Doskolovich

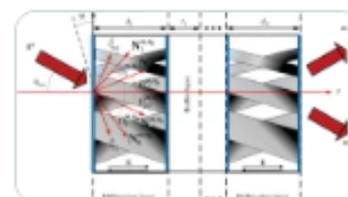
OriginalPaper | 25 February 2026 | Pages: 1 – 6



Diffraction Characteristics of Electrically Controlled Multiplexed Chirped Multilayer Inhomogeneous Holographic Diffraction Structures Based on Polymer-Dispersed Liquid Crystals

V. O. Dolgirev, D. S. Rastrygin & S. N. Sharangovich

OriginalPaper | 25 February 2026 | Pages: 7 – 11



Two-Color Parametric Solitons

S. V. Sazonov

OriginalPaper | 25 February 2026 | Pages: 12 – 15

Dynamics of Pulse Propagation in a Window of Air Transparency

V. A. Khalyapin & A. N. Bugay

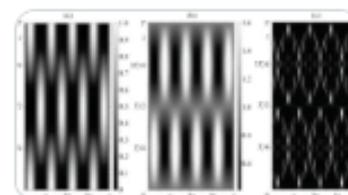
OriginalPaper | 25 February 2026 | Pages: 16 – 19



Propagation of Wave Beams with an Initially Fractal Phase Profile

A. A. Sharkov, O. M. Vokhnik ... F. A. Tulapin

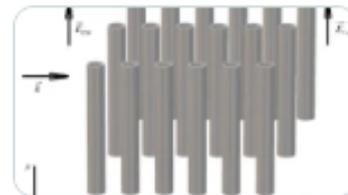
OriginalPaper | 25 February 2026 | Pages: 20 – 24



Modeling the Propagation of a Laser Beam in an Array of Carbon Nanotubes inside an Electric Field

R. R. Trofimov & N. N. Konobeeva

OriginalPaper | 25 February 2026 | Pages: 25 – 29



Noise Characteristics of High-Power Laser Diodes

A. G. Rzhanov

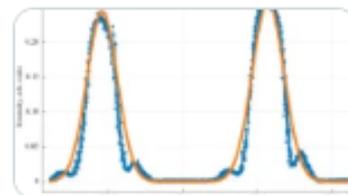
OriginalPaper | 25 February 2026 | Pages: 30 – 35



Analyzing the Transformation of Spectral Parameters during Accelerated Climatic Tests of Side-Emitting Laser Diodes

V. A. Parshin, A. G. Rzhanov ... N. A. Khlyntsev

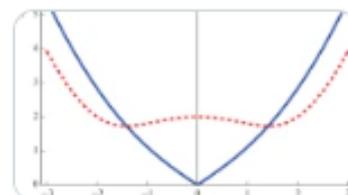
OriginalPaper | 25 February 2026 | Pages: 36 – 41



Anisotropy of the Floquet Spectrum of a Dirac Crystal, Induced by a Bichromatic Field

I. A. Konishchev, S. V. Kryuchkov & E. I. Kukhar

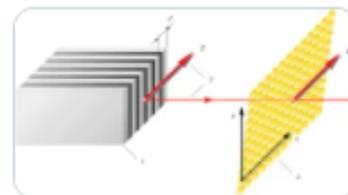
OriginalPaper | 25 February 2026 | Pages: 42 – 46



Dynamic Induction of Valleys in the Band Structure of a Dirac Crystal by the Field a Cnoidal Wave

N. A. Ivanov, S. V. Kryuchkov & E. I. Kukhar

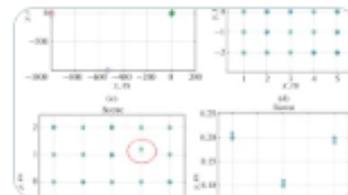
OriginalPaper | 25 February 2026 | Pages: 47 – 51



A Distributed Network of Multi-Position Ultra-Wideband Radars Based on Microwave Photonics Technologies

V. V. Kulagin, V. V. Valuev ... V. A. Cherepenin

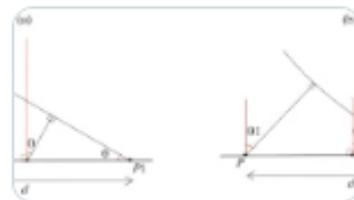
OriginalPaper | 25 February 2026 | Pages: 52 – 58



Using Radio Photonics in Designing Microwave Receivers to Determine the Angle of Signal Arrival by Creating Radio Holograms

D. Burkitbayev, V. V. Kulagin ... V. A. Cherepenin

OriginalPaper | 25 February 2026 | Pages: 59 – 63



Electron Beam Bunching in High-Power Relativistic Klystrons

V. E. Rodyakin & V. N. Aksenov

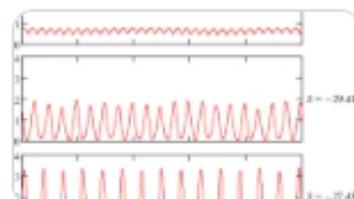
OriginalPaper | 25 February 2026 | Pages: 64 – 69



Spikes Regimes Investigation in a Pulsed W-Band Traveling Wave Tube with Delayed Feedback

M. N. Vilkov, A. A. Ivanov ... A. V. Sukhoverkhy

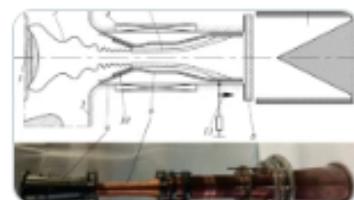
OriginalPaper | 25 February 2026 | Pages: 70 – 74



First Experimental Studies of Relativistic Gyrotron Radiation at the Fifth Cyclotron Harmonic in the Regime of Frequency Multiplication

E. V. Ilyakov, D. S. Krupin ... A. S. Shevchenko

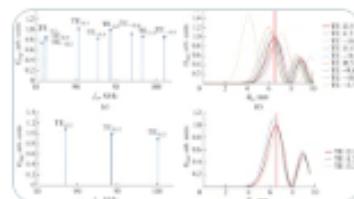
OriginalPaper | 25 February 2026 | Pages: 75 – 79



Developing a Super-Powerful Relativistic W-Band Gyrotron

A. N. Leontyev, R. M. Rozental ... E. S. Semenov

OriginalPaper | 25 February 2026 | Pages: 80 – 84



Using a Structure of Plane-Parallel Solid Layers to Suppress Multiple Reflections between a Piezoelectric Source and a Target Particle in the Study of Acoustic Radiation Force

E. A. Petrov, L. M. Kotelnikova ... O. A. Sapozhnikov

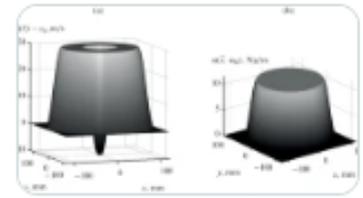
OriginalPaper | 25 February 2026 | Pages: 85 – 89



Multi-Frequency Mode for Reconstruction of Acoustic Inhomogeneities by Functional Algorithm and Angular Harmonic Technique

D. I. Zotov & O. D. Rumyantseva

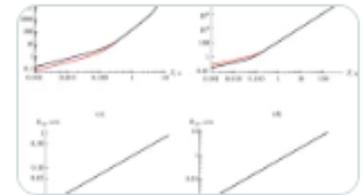
OriginalPaper | 29 November 2025 | Pages: 90 – 97



Dispersion Relations of Surface Waves and Ligaments in a Viscous Stratified Liquid

A. A. Ochirov

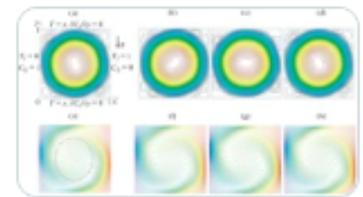
OriginalPaper | 25 February 2026 | Pages: 98 – 103



Laminar and Oscillatory Convection of a Fluid in a Closed Area with Lateral Heating

A. I. Fedyushkin

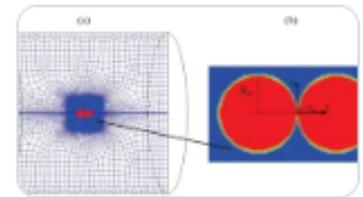
OriginalPaper | 25 February 2026 | Pages: 104 – 111



The Oscillatory Mode of Droplet Coalescence

A. I. Fedyushkin

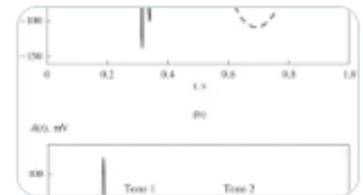
OriginalPaper | 25 February 2026 | Pages: 112 – 117



Analyzing Heart Tones to Diagnose Pulmonary Hypertension

M. V. Ryabkov, V. V. Gramovich & K. V. Dmitriev

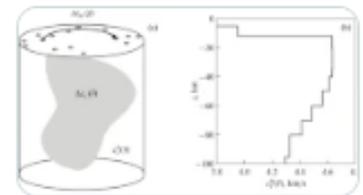
OriginalPaper | 25 February 2026 | Pages: 118 – 122



A 3D Model of the Upper Mantle near the Hawaiian Archipelago Based on Surface-Wave Tomography Data

D. D. Pozdnyakova, D. A. Presnov & A. S. Shurup

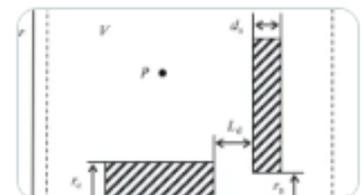
OriginalPaper | 25 February 2026 | Pages: 123 – 128



Radiation Field of a Charged Particle Accelerated in a Diode Gap

V. N. Kornienko & V. V. Kulagin

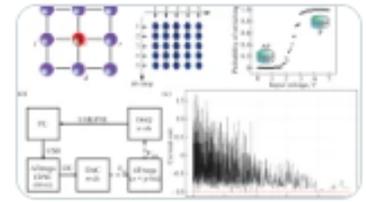
OriginalPaper | 25 February 2026 | Pages: 129 – 133



Probabilistic Computing on Stochastic Magnetic Tunnel Junctions

A. S. Pakhomov, V. V. Yurlov ... K. A. Zvezdin

OriginalPaper | 25 February 2026 | Pages: 134 - 140



Formation of Bandgaps in Nano-Sized Magnonic Crystals upon Varying Geometric Parameters

V. V. Balayeva, D. V. Romanenko & M. A. Morozova

OriginalPaper | 25 February 2026 | Pages: 141 - 148

