

## **Acoustical Physics -- May 2001**

**Volume 47, Issue 3, pp. 243-370**

### **Power Flux along a Straight Crack in an Elastic Plate**

I. V. Andronov

pp. 243-246 Full Text: [PDF](#) (51 kB)

### **Acoustic Radiation of a Water-Filled Piezoelectric Cylinder near a Rigid Plane**

S. M. Balabaev and N. F. Ivina

pp. 247-252 Full Text: [PDF](#) (67 kB)

### **Exact and Asymptotic Solutions for the Field of a Point Source in a Transversely Isotropic Medium**

P. M. Bokov and A. M. Ionov

pp. 253-261 Full Text: [PDF](#) (125 kB)

### **Space-Frequency Interference Structure of Acoustic Fields in Oceanic Waveguides**

E. L. Borodina and Yu. V. Petukhov

pp. 262-267 Full Text: [PDF](#) (637 kB)

### **Features of the Sound Field Structure in a Two-Channel Oceanic Waveguide**

O. P. Galkin and L. V. Shvachko

pp. 268-276 Full Text: [PDF](#) (204 kB)

### **Determination of the Absorbing and Scattering Properties of the Sea Floor in a Shallow Water Environment by the Spectra of Wide-Band Signals**

V. A. Grigor'ev, B. G. Katsnel'son, and V. G. Petnikov

pp. 277-281 Full Text: [PDF](#) (67 kB)

### **SH Acoustic Waves in a Lithium Niobate Plate and the Effect of Electrical Boundary Conditions on Their Properties**

S. G. Joshi, B. D. Zaitsev, and I. E. Kuznetsova  
pp. 282-285 Full Text: [PDF](#) (64 kB)

**Determination of the Source Bearing in a Waveguide by Using the Sound Field Interference Pattern**

V. A. Eliseevnin  
pp. 286-290 Full Text: [PDF](#) (93 kB)

**Sound Transmission Loss of Panels with Resonant Elements**

B. M. Efimtsov and L. A. Lazarev  
pp. 291-296 Full Text: [PDF](#) (82 kB)

**Beamforming for a Flexible Acoustic Array**

V. A. Zverev and A. A. Pavlenko  
pp. 297-302 Full Text: [PDF](#) (106 kB)

**Nonlinear Waves in Inhomogeneous Cylindrical Shells: A New Evolution Equation**

A. I. Zemlyanukhin and L. I. Mogilevich  
pp. 303-307 Full Text: [PDF](#) (62 kB)

**Pulsed Sounding of Cracks with the Use of the Modulation of Ultrasound by Vibrations**

V. V. Kazakov and A. M. Sutin  
pp. 308-312 Full Text: [PDF](#) (139 kB)

**Sound Field Features in the Coastal Zone of a Shallow Sea with an Airborne Source of Excitation**

N. N. Komissarova  
pp. 313-322 Full Text: [PDF](#) (176 kB)

**Effect of the Diffraction of Sound by the Carrier of Hydroacoustic Equipment on the Results of Measurements**

R. A. Kosobrodov and V. N. Nekrasov  
pp. 323-328 Full Text: [PDF](#) (96 kB)

**Synthesis of Linear Discrete Acoustic Arrays**

P. N. Kravchun

pp. 329-332 Full Text: [PDF](#) (49 kB)

**Thermal Fields and Thermal Doses in Ultrasonic Surgery: A Model of a Gaussian Focused Beam**

Yu. N. Makov

pp. 333-340 Full Text: [PDF](#) (123 kB)

**Effect of the Refraction of Sound Waves in the Sediment Layer on the Sound Field Levels in the Ocean at Short Ranges**

A. V. Mikryukov and O. E. Popov

pp. 341-346 Full Text: [PDF](#) (112 kB)

**Experimental Study of Strain Waves in Materials with a Microstructure**

A. I. Potapov and V. M. Rodyushkin

pp. 347-352 Full Text: [PDF](#) (137 kB)

**Two-Channel Processing of Signals for the Separation of Breath and Cardiac Sounds**

A. G. Rudnitskii

pp. 353-360 Full Text: [PDF](#) (190 kB)

**Acoustic Monitoring of the Sea Medium Variability: Experimental Testing of New Methods**

A. V. Furduev

pp. 361-368 Full Text: [PDF](#) (116 kB)

**CHRONICLE**

**Immanuel Lazarevich Fabelinskii (On His 90th Birthday)**

pp. 369-370 Full Text: [PDF](#) (48 kB)