

## JOURNAL OF APPLIED MATHEMATICS AND MECHANICS CONTENTS OF NEXT ISSUE Volume 61, No. 2, 1997

## IVAN GRIGOR'YEVICH BUBNOV (125th Anniversary)

LI ZHI and N. R. ZIBGATULLIN: Refined theory of long waves on water surface

- A. T. IL 'ICHEV and A. V. MARCHENKO: The formation of non-linear wave guides in the resonant interaction of three surface waves
- I. V. ANDRONOV and B. P. BELINSKI: Scattering of hydroacoustic waves by a narrow crack in an elastic plate
- I. O. OSIPOV: Reflection and refraction of plane longitudinal waves in the boundary between liquid and an abnormal anisotropic medium
- A. V. BADANIN: Diffraction of a short wave at the junction between two plates, one of which is reinforced by ribs
- A. V. OSIPOV: On the sound diffraction at an angular joint of thin elastic plates
- V. G. POPOV: Interaction of a plane harmonic Rayleigh wave with a thin rigid boundary inclusion bonded to an elastic medium
- Ye. V. GLUSHKOV and Yu. G. NIKITIN: Energy propagation in a system of joint elastic half-strips of different thickness
- S. V. SHMEGERS: A method for solving plane initial boundary-value problems of elastodynamics
- V. N. PILIPCHUK and G. A. STERUSHENKO: A version of non-smooth transformation of variables for one-dimensional elastic systems of periodic structure
- A. M. FILIMONOV: Continuous and discrete models of bounded one-dimensional media in the theory of viscoelasticity
- V. D. POTAPOV: Stability analysis of visco-elastic stochastic systems
- V. M. ALEKSANDROV and D. A. POZHARSKII: On the axially symmetric contact problem of the theory of elasticity for a truncated sphere
- Yu. V. NEMIROVSKII and A. P. YANKOVSKII: Some features of the solutions of plane thermo-elastic problems for a rational reinforcement of composite structures
- L. S. NOVOZHILOVA and S. V. URAZHDIN: Analytical evaluation of energy fields characteristics for slip lines in problems of plane plastic deformation
- P. CAPODANNO: On the calculation of the second variation in the problem of stability of steady motions of a rigid body containing a liquid
- N. G. MAZUR, V. N. NIKOLAYEVSKII and G. A. EL': Energy exchange between seismic and ultrasound modes of oscillations in elastic media with microstructure
- I. V. ANDRIANOV and V. I. PIKUNOV: Asymptotic analysis of the dynamics of eccentrically reinforced plates
- L. P. ZHELEZKO and N. I. OBODAN: Secondary branches and supercritical behaviour of thin shells undergoing non-uniform deformation
- N. A. IVAN'SHIN and E. A. SHIROKOV: The solution of the second basic problem of the theory of elasticity for a plane with a doubly symmetric two-cusp cut