

# **JOURNAL OF APPLIED MATHEMATICS AND MECHANICS**

## **CONTENTS OF NEXT ISSUE**

### **Volume 57, No. 5, 1993**

- N. A. BOGATYREVA and E. S. PIATNITSKII:** A minimax principle for mechanics
- V. V. KOZLOV:** On degree of instability
- V. N. TKHAI:** On stability of symmetric equilibrium states of a reversible system
- E. V. VERKHOVOD and G. V. GORR:** New cases of isoconical motions in the generalized problem of the dynamics of a rigid body with a fixed point
- A. N. KRAIKO:** Variational problem of one-dimensional isentropic compression of an ideal gas
- R. R. GADYL'SHIN:** On the quasistationary regime of a Helmholtz resonator
- V. A. BATISHCHEV:** Boundary layers near a plane free boundary of a liquid caused by axisymmetric shear stresses
- V. I. ZHUK:** Non-linear excitations, inducing a proper pressure gradient in the boundary layer at a plate in trans-sonic flow
- G. I. NAZAROV:** New approximate analytic solutions of the equations of gas dynamics
- A. I. RYLOV:** On the structure of subsonic flow between an asymmetric body and a receded shock wave
- A. G. KULIKOVSKII:** On stability loss of weakly non-homogeneous flows in extended regions. Generation of transverse oscillations of a pipe conveying fluid
- P. A. IAKUBENKO:** On a sufficient instability condition for dynamic systems with distributed parameters, depending on a spatial variable
- A. V. NASEDKIN:** General theorems on energy transfer by homogeneous waves
- N. K. AKHMEDOV and M. F. MEKHTIYEV:** Analysis of the three-dimensional problem of the theory of elasticity for a non-homogeneous, truncated hollow cone
- Kh. B. TOLIPOV:** Dynamic problem of the theory of elasticity for corner regions with homogeneous boundary conditions
- S. A. NAZAROV and O. R. POLIAKOVA:** Asymptotics of the stress-deformation state near a spatial singularity of the boundary of the type "beak tip"
- L. A. FIL'SHTINSKII:** Plane magneto-elastic problem for a ferromagnetic medium, weakened by cuts
- A. I. OLEINIKOV:** Fundamental general relations of an elasto-isotropic model of a medium with different moduli
- S. V. KOLESNIKOV:** A refined theory of oscillations of a multilayered orthotropic plate
- V. S. SERGEYEV:** On asymptotic stability of motions in certain systems with after-effect
- O. Yu. DINARIYEV and V. N. NIKOLAYEVSKII:** Non-stationary regime of micro-rotations
- I. V. ANDRIANOV:** Asymptotic solutions for non-linear systems for large degrees of non-linearity
- G. A. LEONOV:** Oscillations in systems with non-linear damping
- N. N. KOCHINA:** On periodic solutions of the problem of one-dimensional unsteady motion of a liquid in a pipe