

## JOURNAL OF APPLIED MATHEMATICS AND MECHANICS CONTENTS OF NEXT ISSUE

Volume 62, No. 5, 1998

F. L. CHERNOUS'KO: 60th birthday

V. V. KOZINOV: On the stability of uniformly accelerated motion

- A. P. IVANOV: Stability of periodic solutions in discontinuous systems in the presence of multiple intersections with jump surfaces
- L. D. AKULENKO and S. V. NESTEROV: Single-frequency oscillations of non-linear systems with distributed parameters
- A. A. DZHUMBAYEVA and A. L. KUNITSYN: The stability of a periodic Hamiltonian system under multiple fourth-order resonance
- V. Ph. ZHURAVLEV: On a dry friction model in the problem of rigid body rolling
- V. Yu. OLSHANSKII: Reducibility of equations of the free motion of a complex mechanical system
- R. GABASOV and E. A. RUZHITSKAYA: Robust stabilization of dynamical systems by bounded controls
- V. A. POZDEYEV: The radiaytipon of non-stationary spherical pressure waves induced by a moving and partly permeable boundary
- V. F. SANNIKOV: Improvement in convergence of the mode decomposition of internal waves induced by a moving dipole
- A. V. KISTOVICH and Yu. D. CHASHECHKIN: Diffusion-induced transient boundary currents in a wedge trough
- Yu. V. OBNOSOV: Seepage refraction on a semi-circular lens situated along the boundary between two porous solids
- S. A. TAKOVITSKII: On the choice of a system of geometric parameters for optimization of a wing aerodynamic performance
- O. D. PRYAKHINA, A. V. SMIRNOV and O. M. TUKODOVA: A method of fictitious absorption in the dynamic electro-elastic problems
- G. Ya. POPOV: The problems of the elastic stress concentrations near the defects in spherically layered media
- A. V. LIPEN' and A. V. CHIGAREV: The displacements in an elastic half-space due to a load moving over the beam lying on its surface
- T. I. BELYANKOVA, I. I. VOROVICH and V. V. KALINCHUK: Low frequency resonances resulting from the dynamic interaction of an elastic body with a semi-bounded medium
- Ye. V. GLUSHKOV and N. V. GLUSHKOVA: Natural frequencies of elastodynamic scattering by 3D cracks
- K. F. CHERNYKH: On the non-linear theory of cracks
- CAI TIJING: Canonical gradiometer-aided platformless inertial navigation system
- A. P. BLINOV: On estimating the time of movement of some dynamical systems
- V. MOAURO and P. NEGRINI: Chaotic trajectories for a double pendulum