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

## Volume 58, No. 2, 1994

- L. I. SEDOV: Properties of invariant components of the Weyl tensor following from Bianchi's identities
- L. D. AKULENKO: Perturbed with respect to speed optimal control problem of the final position of a material point by means of a bounded force
- A. M. TARAS'YEV: Approximate schemes for constructing minimax solutions of the Hamilton-Jacobi equations
- V. A. PRIVALOV and V. A. SAMSONOV: Comparison of stability properties of two autorotation regimes
- V. V. NIKULIN: Hollow vortex with axial velocity in a pipe of variable radius
- E. N. POTETYUNKO: Plane waves on the surface of a liquid under harmonic excitation of a part of the boundary
- A. P. BLINOV: The shape of the surface of a liquid in weightlessness
- A. V. LATYSHEV and A. A. YUSHKANOV: Analytical solutions of the problem on jumps of temperature and pressure of steam above the surface in the presence of a temperature gradient
- S. L. DERYABIN and N. P. CHUYEV: Spherically symmetric discharge of a self-gravitating ideal gas into vacuum
- A. G. GORSHKOV, D. V. TARLAKOVSKII and A. M. SHUKUROV: Non-stationary oscillations of an elastic medium bounded by two eccentric spherical surfaces
- V. V. VASIL'EV: The method of mechanical die in the problem of the analysis of non-linear deformation of a cylindrical panel
- A. G. KOLPAKOV: Stiffnesses of elastic cylindrical beams
- I. I. ARGATOV and S. A. NAZAROV: Asymptotic solution of the problem of an elastic body resting on several low supports
- S. I. BOYEV, I. I. VOROVICH and I. B. POLYAKOVA: Some features of the dynamics of the stamp-layer system: energetic analysis
- O. D. PRYAKHINA and M. R. FREIGEIT: Solution of non-stationary contact problems in the presence of adhesion forces
- B. K. OPANASOVICH, L. O. TISOVSKII and I. I. FEDIK; Temperature field thermoelastic state of a plate with a periodic system of thin elastic inclusions
- L. N. GERMANOVICH, M. B. DOLOTOV and I. K. KILL: Dynamic problem of thermoelasticity for half-spaces with distributed heat sources in the case of axial symmetry
- L. A. FIL'SHTINSKII and M. L. FIL'SHTINSKII: Green's function for a composite piezoceramic plane with an interphase crack
- S. Ye. KHOLODOVSKII: Integral representation of potentials in media with ring-like contacting cracks and curtains
- L. A. ALEKSEYEVA and G. K. ZAKIR'YANOVA: Dynamic analogues of Somigliani's formula for non-stationary dynamics of elastic media with an arbitrary degree of anisotropy