## CONTENTS OF NEXT ISSUE

PMM Vol. 40. № 4. 1976

- A.N.KRAIKO and V.A.SHIRONOSOV: Study of flow stability in a channel with an adjoining density jump for nearsonic flow velocity
- A. L. NI and O. S. RYZHOV: Nonlinear wave propagation in media with an arbitrary number of chemical reactions
- A. S. SUMBATOV: On the application of some generalizations of the theorem of areas in systems with rolling rigid bodies
- V. F. ZHURAVLEV: Generalization of Rayleigh's theorem for gyroscopic systems
- I. A. KEIS: On the conditions of existence of a particular Jacobi integral
- Iu. S. FEDOSENKO: On the structure of phase space and periodic motions of non-autonomous dynamic systems with impact interactions
- O. M. KISELEV: On flow of a heavy liquid in a channel with a curvilinear bottom
- B. M. MARKEEV: On a two-point boundary value problem with a small parameter in reactor theory with a nonhomogeneous pseudo-muddy layer
- Ia. M. METSAVEER and Iu. P. PIKK: Echo signal of a finite spherical impulse from a spherical shell filled with a liquid
- N. M. BORODACHEV: On a class of solutions of triple integral equations
- G, Ia, POPOV: On integral equations of contact problems for thin-walled elements
- V.N. BERKOVICH: Method of matrix factorization in mixed problems of the statics of an elastic wedge
- V. G. LITVINOV: Some inverse problems for flexible plates
- N. L. PROKHOROVA and Iu. I. SOLOV'EV: Axisymmetric problem for an elastic space with a spherical cut
- I. I. VOROVICH and S. A. SOLOP: On the existence of periodic solutions in the nonlinear theory of vibrations of shallow shells, taking damping into account
- A. L. POPOV and G. N. CHERNYSHEV: Plane short-wave vibrations in the vicinity of the convex boundary of an elastic body
- A.N. GUZ': Inversion of the relations of the theory of plastic flow for hardening bodies
- G. P. CHEREPANOV: Plastic lines of discontinuity at the crack tip
- B.N. PODBOLOTOV, V.S. POLENOV and A.V. CHIGAREV: Dynamic deformation of quasi-isotropic composite media
- L. E. SHIROKOV: Nontranslational coordinate transformation
- V. P. LESNIKOV and I. Z. FISHER: Green's functions for small disturbances of plane incompressible Couette flow
- V. Ia. RIVKIND, G. M. RYSKIN and G. A. FISHBEIN: Flow past a spherical drop in the transitional range of Reynolds numbers
- L. A. SHENIAVSKII and SHMAL'GAUZEN: Influence of turbulent noise on a pressure gage located in an elastic medium
- L. Ia. AINOLA: Variational principles of the theory of elasticity with varying initial perturbed states
- V. M. BOGOMOL'NYI and R. D. STEPANOV: Solution of the homogeneous boundary value problem for a sector of a segment of a toroidal shell
- Iu. A. AMENZADE and M. B. AKHUNDOV: Boundary value problems for an elastic anisotropic half plane weakened by a circular cavity
- V. A. KARPENKO: Axisymmetric impression of two dies into an elastic sphere
- E. I. -G. GOL'DENGERSHEL': A new Euler stability criterion for a viscoelastic bar