CONTENTS OF NEXT ISSUE

PMM Vol.28, № 5, 1964

- M.S. GABRIELIAN and N.N. KRASOVSKII: On the problem of the stabilization of a mechanical system
- Ia.N.ROITENBERG: On the theory of a gyrocompass
- G.Z. GERSHUNI and E.M. ZHUKHOVITSKII: On the parametric instability of a rigid rotation of a fluid
- M.D. LADYZHENSKII: On three-dimensional hypersonic flow past slender airfoils
- G.A. LIUBIMOV: On the viscous boundary layer on an electrode in a medium with variable electrical conductivity
- V.V. GOGOSOV: On possible simplifications of the equations of a completely ionized two-temperature plasma
- S. KALISKII: Mechanical generation of the Cherenkov radiation in contacting elastic conductor and a fluid in an isotropic magnetic field
- E.F. AFANAS'EV: Impact of a body on a thin plate resting on the surface of a compressible liquid
- A.G. ALENITSYN: Rayleigh waves in nonhomogeneous elastic layer
- B.V. KOSTROV: Selfsimilar problems on the propagation of cracks of shear fracture
- F.S. CHURJKOV: Generalization of the method of functionally invariant solutions for the determination of some integrals of harmonic and wave equations having application in mechanics and physics
- V.A. SVEKLO: Boussinesq type problems for the anisotropic half-space
- A.Ia.ALEKSANDROV and Iu.I. SOLOV'EV: Solution of three-dimensional axisymmetric problem of the theory of elasticity with the aid of contour integrals
- A. ANCHEV: On the sign of quadric forms
- E.Iu.KOGAN: On an extremum property of constrained reactions
- A.A. KARYMOV: Stability of the rotational motion of a geometrically symmetric artificial Sun satellite in the force field of light pressure
- R.Z. KHAS'MINSKII: On the work of a conservative system in the presence of small friction and small random noise
- Iu.L.RABOTNIKOV: On the impossibility of stabilizing a system in the quadratic mean by random perturbation of its parameters
- Iu.A.ARKHANGEL'SKII: On a case of constructing periodic solutions of quasilinear systems

- A.P. PROSKURIAKOV: Influence of terms of higher order of smallness on periodic solutions of quasi-linear systems
- N.I. ALEKSEEV: On the equilibrium configuration and tension of a flexible string under the action of external forces, which depend on the direction of the string in space
- Iu.G.MAMALADZE: Deeply penetrating transverse waves in a rotating viscous fluid
- M.I. GUREVICH: Transmission of sound through a dense grid
- Iu.K. BRATUKHIN and M.I. SHLIOMIS: On an exact solution of the equations of nonsteady convection
- E.G. LARIONTSEV: Some problems of hydrodynamic and hydromagnetic stability of a cylindrical jet
- V.S. KHOMENKO: On a problem of heat conduction for jets
- A.L. GONOR: Exact solution of the problem of supersonic gas flow past some three-dimensional bodies