CONTENTS OF NEXT ISSUE

PMM Vol. 25, No. 3, 1961

- N.A. FUFAEV: Chaplygin's equations and the theorem of the reduced multiplier in the case of quasi-coordinates
- G.K. POZHARITSKII: Extension of the principle of Gauss to systems with dry friction
- V.I. KIRGETOV: The analytical method of mechanics in the theory of purely elastic impact of material systems
- CHZHAN SY-IN: On the theory of optimum control
- N.N. KRASOVSKII and D.A. LIDSKII: Analytic design of controls in stochastic systems, limiting the velocity of change of the guiding effect
- F.M. KIRILLOVA: On the problem of analytical design of controls
- Ia.N. ROITENBERG: On certain indirect methods of obtaining information regarding the position of a controlled system in phase space
- A.A. SVESHNIKOV: Study of the behavior of linear dynamic systems in the presence of nonlinear functions of random processes
- O.S. RYZHOV and Iu.D. SHMYGLEVSKII: On the property of transonic gas flows
- V.V. GOGOSOV: Interaction of magnetohydrodynamic waves
- V.B. BARANOV and G.A. LIUBIMOV: On the form of generalized Ohm's law in a completely ionized gas
- I.B. CHEKMAREV: Steady flow of a slightly ionized gas between parallel plates taking into account the anisotropy of conductivity
- B.M. BULAKH: On some properties of supersonic conical gas flows
- Z.N. DOBROVOL'SKAIA: Penetration of a wedge into a compressible halfspace
- G.A. SKURIDIN: Approximate theory of a head wave produced by a cylindrical inclusion in a homogeneous elastic medium

- L.M. KACHANOV: On the kinetics of crack growth
- A.A. IL'IUSHIN: On the plasticity postulate
- V.D. BONDAR': On tensorial characteristics of finite deformation of a continuous medium
- V.M. DAREVSKII: On basic relations of the theory of thin shells
- T.T. KHACHATURIAN: The basic equations of the general theory of thin shells in terms of stresses
- I.I. VOROVICH: On certain general concepts of solutions of the equations of shallow shell theory
- V.V. SOKOLOVSKII: Widening of a circular opening in a rigid plastic plate
- G.I. BYKOVTSEV: On the velocity field accompanying indentation of a plane die into a plastic half-space
- V.P. KARLIKOV and V.P. KOROBEINIKOV: On the disturbance of an electromagnetic field by shock waves in the presence of a conductivity jump
- Ia.S. UFLIAND: On the rotation of a conducting liquid in a circular clearance in the presence of a transverse magnetic field
- I.B. MEDUKHOVSKII: On the flow past a body of revolution with tail assembly at an angle of attack
- S.A. BOSTANDZHIIAN: Homogeneous screw motion between two coaxial cones
- E.N. TOKAR': Some properties of a gyroscopic compass with a period of 17 hours
- V.A. TABUEVA: On circular motions of Froude's pendulum
- V.V. KREMENTULO: Application of the second method of Liapunov to the study of stability of stationary motions of a gyroscope taking account of elastic properties of the rotor
- A.B. SAVVIN: On differential equations of second order with solutions bounded by a given quantity
- S.S. GAISARIAN: On the justification of Galerkin's method for equations with lagging argument
- L.F. RAKHMATULLINA: On the stability problem of the solution of the nonlinear heat-conduction equation