## CONTENTS OF NEXT ISSUE

## PMM Vol. 40. № 3, 1976

- V. V. KOZLOV: Principle of minimum action and periodic solutions in problems of classical mechanics
- V. S. SERGEEV: On stability of permanent rotations of a heavy rigid body about a fixed point
- N.N. MAKEEV: Small vibrations and spherical motion of a gyrostat in a pseudo-euclidean space
- A, S, OZIRANER: On stability of unsteady motions in first approximation
- A. L. KUNITSYN: Normal form and stability of periodic systems for internal resonance
- V. M. RESHETOV and V. N. USHAKOV: Stabilization in a linear differential game with integral limitations on resources of control of the players
- V. G. GETMANOV and B. E. FEDUNOV: Synthesis of optimal high speed control by an object of third order with phase limitations
- V. V. GOGOSOV, V. M. KOROVIN, V. A. POLIANSKII and G. A. SHAPOSHNIKOVA:

  Isothermal jumps in electrohydrodynamics
- V. T. GRIN', A. N. KRAIKO and N. I. TILLIAEVA: On stability of flow of an ideal gas in a channel with an adjoint jump in density with simultaneous reflection at the exit section of acoustic and entropy waves
- Ia. L. RUDERMAN: On the boundary layer on a partially moving surface
- S.N.KAZEIKIN and Iu. D. SHEVELEV: Three-dimensional boundary layer in a multicomponent partially ionized gas
- V. V. TRET'IAKOV: Boundary integrals for the wave equation in the problem of diffraction of plane waves
- N. D. VEKSLER and M. E. KUTSER: Asymptotic behavior of the pressure field in a definite jump of diffraction of a plane acoustic wave at an elastic cylindrical shell
- N. V. BANICHUK and A. A. MIRONOV: Optimization problem for plates vibrating in an ideal liquid
- V. L. BERDICHEVSKII: Stress functions and some apriori estimates in the theory of bending of plates
- Iu. A. USTINOV: On the completeness of the system of homogeneous solutions of the theory of plates
- A, N, MARTIROSIAN: On non-stationary motion of elastic space with a crack
- N. M. BORODACHEV: Contact problem for a die with a rectangular base
- M. I. CHEBAKOV : On further development of "the method of large  $\lambda$  " in the theory of mixed problems
- S. B. VIGDERGAUZ: Integral equation of the inverse problem of the plane theory of elasticity
- L. V. AN DREEV, V. I. MOSSAKOVSKII and N. I. OBODAN: The maximum principle in problems of optimal design of reinforced shells for non-uniform loading
- V. M. GONCHARENKO: Generalized solutions of boundary value problems in the theory of elasticity for random loading