JOURNAL OF APPLIED MATHEMATICS & MECHANICS

CONTENTS OF NEXT ISSUE

Vol.55, Issue 3, 1991

- CHERNYI G.G.: Motion of a plate through a melting solid medium.
- STRUMINSKII V.V.: Asymptotic methods for the solution of the system of kinetic equations for gas mixtures.
- GRYN V.I.: On exact solutions of Navier-Stokes equations.
- KRAIKO A.N.: Minimum wave drag body head of a given volume in Newton's drag law approximation.
- BATISHCHEV V.A.: Selfsimilar solutions for thermocapillary fluid flow in viscous layers.

SAVIN A.S.: Hydrodynamical singularities in free-surface flows.

- BESTUZHEVA A.N. and DORFMAN A.A.: Wave motions of a fluid over a sloping bottom generated by a source.
- SAFARGULOVA S.I. and SMIRNOV N.N.: On the velocity of propagation of small perturbations in porous media.
- ZUBOV L.M.: Variational principles of non-linear elastostatics in Euler coordinates.
- PIMENOV A.A. and PUSHKAREV V.I.: The application of quaternion analysis for the generalization of the Kolosov-Muskhelishvili method to spatial problems of the theory of elasticity.
- CHISHKO K.A.: Spectral expansions of the Green tensor of the dynamic problem of elasticity in cylindrical coordinates.

ROGACHEVA N.N.: Linear theory of rubber-metal bilayer shells.

KOLPAKOV A.G.: On the analysis of characteristics of thin elastic beams with periodic structure.

BELYAYEV A.I.: Optimization of composite structures.

- SMETANIN B.I.: On an integral equation of axisymmetric problems for an elastic body with an inclusion.
- DUPLIAKIN A.A.: Motion of a vehicle with constant velocity along a beam of infinite length, lying on a foundation with two characteristics.
- BESHENKOV S.N. and GORBAN S.F., One-dimensional hydroelastic vibrations of three-layered plates.
- KAPLUNOV IU.D.: High-frequency stress-strain states of small variability in shells submerged in a fluid.
- CHUGAINOVA A.P.: Steady quasitransversal simple and shock waves in a weakly anisotropic nonlinearly elastic medium.
- SIL'VESTROV V.V.: The state of stress and deformation in a multilayered surface with cuts.
- NAZAROV S.A.: On three-dimensional effects in the vicinity of the tip of a thin plate crack.
- KAPTSOV A.V. and SHIFRIN E.I.: Solution of elastodynamic problems for an infinite medium containing an elliptical crack by means of Pade approximants.
- BAKHTIZIN R.N. and MUKHAMEDSHIN R.K.: Invariant solutions of the equations of viscous nonisothermal stationary fluid flow in pipes.
- BELIAYEV K.P.: Diffraction of elastic shear waves by a circular cylindrical inclusion with two cracks along the phase boundary.