

JOURNAL OF APPLIED MATHEMATICS AND MECHANICS CONTENTS OF NEXT ISSUE

Volume 66, No. 1, 2002

- F. L. CHERNOUS'KO: Optimal rectilinear motions of a two-mass system
- L. D. AKULENKO and A. M. SHMATKOV: Time-optimal reaching of a sphere by a mass point with zero velocity
- A. P. MARKEYEV: Boundedness of trajectories in the neighbourhood of an orbitally unstable periodic motion of a Hamiltonian system
- V. N. PILIPCHUK: Some remarks on non-smooth transformation of space and time for vibrating systems with rigid barriers
- A. A. KOROBKIN: Penetration of an elliptic paraboloid at variable velocity into a liquid
- R. R. GADYL 'SHIN: Scattering of a plane wave at a trap in the critical case
- A. M. TER-KRIKOROV: Disturbances from a source in a three-layer fluid
- V. G. BAIDULOV, Yu. V. KISTOVICH and Yu. D. CHASHECHKIN: Properties of exact wave-like solutions in the theory of stratified flows
- I. V. STUROVA: The effect of periodical surface pressure on a floating elastic platform
- S. P. BAUTIN and Yu. Yu. CHERNYSHOV: A flow of a heat-conducting gas which is an analog of Riemann's centred wave
- S. P. BAKANOV, V. ZDIMAL, S. K. ZARIPOV and J. SMOLIK: Motion of an aerosol drop in a thermal diffusion cloud chamber
- E. L. AERO: Dynamic problems for the Sine-Gordon equation with variable coefficients. Exact solutions
- A. G. KULIKOVSKII and A. P. CHUGAINOVA: On the stability of a metastable shock wave in viscoelastic media with respect to the two-dimensional perturbations
- K. S. SULTANOV: Damping of longitudinal waves in non-linear visco-elastic media
- A. P. MALYSHEV: Different model of frequency-independent energy dissipation during vibrations
- D. D. IVLEV, L. A. MAKSIMOVA and R. I. NEPERSHIN: The indentation of a flat punch into the rigid-plastic half-space with the contact shear stress taken into consideration
- R. I. NEPERSHIN: Rigid-plastic half-space indentation by a flat rigid punch
- Ye. V. GLUSHKOV, N. V. GLUSHKOVA and A. V. YEKHLAKOV: Mathematical model for ultrasonic three-dimensional crack detection