



---

# JOURNAL OF APPLIED MATHEMATICS AND MECHANICS CONTENTS OF NEXT ISSUE

## Volume 71, No. 6, 2007

---

A.R. AKHMETZHANOV, A.A. MELIKYAN and A.L. FRADKOV: Optimality of the speed gradient method for control of the escape from a potential well

O.I. KOSTYUKOVA and M.A. KURDINA: Construction of discontinuous controls for non-linear dynamical systems with uncertainties

O.R. KAYUMOV: On the global controllability of some mechanical systems with elastic impacts

V.I. MAKSIMOV: On the reconstruction of controls in exponentially stable linear systems under small perturbations

L.D. AKULENKO: Boundary kinematic control of a distributed oscillatory system

S.A. ALEKSEYEVA, V.I. VOROTNIKOV and V.A. FEOFANOV: On partial stability and detectability problems for dynamical systems

B.S. BARDIN: On the orbital stability of periodic motions of a Hamiltonian system with two degrees of freedom in 3:1 resonance

A.A. ZENIN and L.A. FILONENKO: Qualitative analysis of oscillations of a pendulum with periodically varying length and a mathematical model of a swing

S.V. KHIZGIYAUEV: Self-oscillation of a two masses oscillator with dry friction ‘stick-slip’

S.P. SOSNITSKII: On the stiffness of quasilinear gyroscopic coupled systems with respect to periodic perturbations with low and high frequencies

V.S. ASLANOV: Oscillations of a body with an orbital tethered system

A.D. BRUNO and V.P. VARIN: periodic solutions of the restricted three-body problem for a small mass ratio