Contents

Vol. 43, No. 2, 2007
Simultaneous English language translation of the journal is available from Pleiades Publishing, Ltd.
Distributed worldwide by Springer. *Differential Equations* ISSN 0012-2661.

Members of Scientific Community

Viktor Aleksandrovich Pliss
(A Tribute in Honor of His Seventy-Fifth Birthday) 151

Tamara Kuz'minichna Shemyakina
(A Tribute in Honor of Her Seventieth Birthday) 154

Ordinary Differential Equations

On the Existence of Two Nontrivial Solutions of Periodic Problems with Operators of p-Laplacian Type
R. P. Agarwal, D. O'Regan, and N. S. Papageorgiou 157

Isochronous and Strongly Isochronous Second-Order Holomorphic Dynamical Systems on the Plane
V. V. Amel'kin and O. B. Korsantiya 164

Necessary and Sufficient Conditions for the Stability of Lyapunov Exponents of Linear Differential Systems with Exponentially Decaying Perturbations
E. A. Barabanov and N. S. Denisenko 168

On the Limit Values of Mel'nikov Functions on Periodic Orbits
S. D. Glyzin, A. Yu. Kolesov, and N. Kh. Rozov 180

A General Test for the Reducibility of Linear Differential Systems and Properties of the Reducibility Coefficient
N. A. Izobov and S. A. Mazanik 196

On Sufficient Conditions for the Applicability of an Algorithm for the Computation of the Sigma-Exponent to Integrally Bounded Perturbations
N. V. Kozhurenko and E. K. Makarov 208

Topologically Stable Subharmonics of Large Periods and Amplitudes
A. M. Krasnosel'skii and A. V. Pokrovskii 218

Partial Differential Equations

On the Solvability of Boundary Value Problems for the Stationary Magnetohydrodynamic Equations with Inhomogeneous Mixed Boundary Conditions
R. V. Brizitskii and D. A. Tereshko 246

Optimal Control of a Singular Evolution Equation with a Nonsmooth Operator and Fixed Terminal State
S. Ya. Serovaiskii 259

Finite-Difference Equations

Reconstruction of a Two-Parameter Discrete System from Its Transfer Matrix
I. V. Gaishun and V. V. Goryachkin 267

Short Communications

Construction of Lyapunov Functions for a Class of Systems of Nonlinear Differential Equations
A. Yu. Aleksandrov and A. V. Platonov 276

The $\mathbb{R}$-Linear Conjugation Problem for the Carleman–Vekua Equation on an Open Riemann Surface
I. A. Bikchantaev 280

On the Solvability of Boundary Value Problems for Nonlinear Second-Order Differential Equations
N. L. Partsvaniya 286

On the Duality of Coppel–Conti Sets
Z. N. Primicheva and R. A. Prokhorova 290

Chronicle

On the Seminar on Problems of Nonlinear Dynamics and Control at Moscow State University 294