

Contents

Vol. 42, No. 1, 2006

Simultaneous English language translation of the journal is available from Pleiades Publishing, Inc.
Distributed worldwide by Springer. *Differential Equations* ISSN 0012-2661.

Ordinary Differential Equations

On a Stability Criterion for Solutions of Systems of Nonlinear Differential Equations <i>I. V. Boikov</i>	1
Solution of the Center-Focus Problem for a Cubic System Reducible to a Lienard System <i>Yu. L. Bondar' and A. P. Sadovskii</i>	10
Bounded Positive Solutions of Nonlinear Second-Order Differential Equations <i>Zhaoyang Yin</i>	26
On the Asymptotic Expansion of a Solution of a Linear Second-Order Differential Equation with Respect to a Parameter <i>D. L. Kudryavtsev</i>	37
On the Norms of Riesz Projections onto Subspaces of Root Functions of a Boundary Value Problem for a Functional-Differential Expression <i>G. V. Radzievskii+</i>	54

Partial Differential Equations

A Parabolic Variational Inequality in Unbounded Domains <i>G. P. Domanskaya, M. E. Kolin'ko, and S. P. Lavrenyuk</i>	68
Generalized Solutions of the Integral Equations of a Scalar Diffraction Problem <i>A. A. Kashirin and S. I. Smagin</i>	88
On a Spectral Problem for Two Hyperbolic Systems <i>D. V. Kornienko</i>	101
Onset of Solutions with Internal Layers Approaching the Domain Boundary <i>I. V. Nedel'ko</i>	112
Characterization of One-Dimensional Tangent Transformations in Terms of Differential Relations <i>M. V. Neshchadim</i>	126
Resonance Elliptic Variational Inequalities with Discontinuous Nonlinearities <i>V. N. Pavlenko and M. A. Pribyl'</i>	132
Hoff Equations on Graphs <i>G. A. Sviridyuk and, V. V. Shemetova</i>	139

Short Communications

On the Smoothness of the Solution of the Boundary Control Problem
at Two Endpoints for the String Equation

Yu. K. Sabitova

146

An Instability Theorem for a Class of Eighth-Order Differential Equations

C. Tunc and E.

Tunc

150

On One Property of Two-Scale Convergence

V. V. Shumilova

155
