

Contents

Vol. 42, No. 9, 2006

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

Partial Differential Equations

Integro-Functional Equations in the Inverse Source Problem for the Wave Equation <i>A. M. Denisov</i>	1221
On the Solvability of Boundary Value Problems with a Nonlocal Boundary Condition of Integral Form for Multidimensional Hyperbolic Equations <i>A. I. Kozhanov and L. S. Pul'kina</i>	1233
The Helmholtz Equation Outside Cuts on the Plane with the Dirichlet Condition and a Third-Kind Boundary Condition on Opposite Sides of the Cuts <i>P. A. Krutitskii and V. V. Kolybasova</i>	1247

Integral and Integro-Differential Equations

On a Class of Integral Equations in the Space of Continuous Functions <i>A. S. Kalitvin</i>	1262
Singular Integrals with Cauchy Type Kernels and Their Application to a Two-Dimensional Problem on the Evolution of a Fluid Interface in an Inhomogeneous Layer <i>V. F. Piven'</i>	1269
On a Class of Linear Integro-Differential Equations in Variational Derivatives <i>Yu. V. Romanovskii and L. A. Yanovich</i>	1283
Asymptotics of Solutions of an Integro-Differential and an Integral Equation <i>M. S. Sgibnev</i>	1291
A Singular Integral Equation with Hilbert Kernel in a Class of Distributions <i>A. V. Setukha</i>	1302
Existence and Construction of Generalized Solutions of Nonlinear Volterra Integral Equations of the First Kind <i>N. A. Sidorov and D. N. Sidorov</i>	1312

Numerical Methods

Numerical Solution of Integro-Differential Systems with a Degenerate Matrix Multiplying the Derivative by Multistep Methods <i>M. V. Bulatov and E. V. Chistyakova</i>	1317
Justification of the Numerical Solution of a Hypersingular Integral Equation <i>Yu. V. Gandel' and A. S. Kononenko</i>	1326
An Instance of Numerical Solution of Integral Equations with Singularities in the Periodic Case <i>I. K. Lifanov</i>	1334

A Scheme for the Numerical Solution of the Modified Dirichlet Problem
in Finite Multiply Connected Domains and Some Applications

D. G. Sanikidze, M. G. Mirianashvili, and K. R. Kupatadze

1343

An Iterative Approach to the Numerical Solution of the System of Integral
Equations for Boundary Value Problems for the Scalar Helmholtz Equation

S. L. Stavtsev

1352

Short Communications

Solvability Conditions for an Integral Equation with Singular
and Logarithmic Kernels

A. S. Nenashev

1361