Contents

Vol. 55, No. 6, 2019

Ordinary Differential Equations

Nonlinearly Loaded Boundary Value Problems for Linear Ordinary Differential Equations
K. R. Aida-zade 739

On the Existence of Isolated Integral Tori of Differential Systems
V. V. Amel'kin and V. Yu. Tyshchenko 745

Bifurcation of an Oscillatory Mode under a Periodic Perturbation of a Special Oscillator
Yu. N. Bibikov and V. R. Bukaty 753

Asymptotics of a Spike Type Contrast Structure in a Problem with a Multiple Root of the Degenerate Equation
V. F. Butuzov 758

Two-Point Boundary Value Problems for Essentially Singular Nonlinear Second-Order Differential Equations
I. T. Kiguradze 776

Unconditional Basis Property of the System of Root Functions of a Differential Operator with Integral Boundary Conditions
I. S. Lomov 787

Partial Differential Equations

Uniqueness of the Solution of the Cauchy Problem for Parabolic Systems
E. A. Baderko and M. F. Cherepova 806

Problem of the Riemann–Hilbert Type for a Hyperbolic System on the Plane
N. A. Zhura and A. P. Soldatov 815

Reductions and Exact Solutions of Nonlinear Elliptic Systems of a Special Form
A. A. Kosov and E. I. Semenov 824

Existence and Uniqueness of an R_ν-Generalized Solution of the Dirichlet Problem for the Lamé System with a Corner Singularity
V. A. Rukavishnikov and E. I. Rukavishnikova 832

Control Theory

Group Pursuit Problem in a Differential Game with Fractional Derivatives, State Constraints, and Simple Matrix
N. N. Petrov 841

Dynamic Right-Hand Side Reconstruction Problem for a System of Fractional Differential Equations
P. G. Surkov 849

Short Communications

Method of Upper and Lower Functions and Fragmentation of Boundary Value Problems

A. Ya. Lepin 859

Asymptotics of the Solution of a Parabolic Linear System with a Small Parameter

A. S. Omuraliev 862

Global Unsolvability of the Burgers Equation with Fractional Time Derivative

B. T. Torebek 867