

Index

VOLUME 41

Number 4

1997

RUSSIAN MATHEMATICS (Iz. VUZ)

	Pages
<i>Semidiscrete method for solving equations of a one-dimensional motion of viscous heat-conductive gas with non-smooth data.</i> A.A. Amosov and A.A. Zlotnik.....	1
<i>On the solvability of a nonlinear evolutionary inequality of the theory of joint motion of surface and ground waters.</i> L.L. Glazyrina and M.F. Pavlova.....	18
<i>Estimation of the Kolmogorov N-widths for certain compacts in the strengthened Sobolev spaces.</i> Ye.G. D'yakonov	30
<i>Exact estimates for the error gradient of locally one-dimensional methods for multidimensional equation of heat conduction.</i> S.B. Zaĭtseva and A.A. Zlotnik	49
<i>On mathematical problems in the theory of multilayer shells with transversally soft fillers.</i> M.M. Karchevskii, A.D. Lyashko and V.N. Paimushin	64
<i>Skew-symmetric iteration methods for solving stationary problem of convection-diffusion with a small parameter at the highest derivative.</i> L.A. Krukier	75
<i>On a class of two-layer difference schemes for nonlinear boundary value problems with memory.</i> E.M. Fedotov.....	84
<i>The decomposition method for singularly perturbed boundary value problems with the local perturbation of the initial conditions. Equations with convective terms.</i> G.I. Shishkin and I.V. Tselishcheva	96
<i>Generation of two- and three-dimensional grids for problems of gas dynamics on the base of the Poisson equation.</i> S.N. Martyushov	106

RUSSIAN MATHEMATICS (Iz. VUZ)

	Pages
<i>On positive radial symmetric solution of Dirichlet problem for a certain nonlinear equation and a numerical method for its evaluation.</i> E.I. Abduragimov	1
<i>The interpolation Lagrange polynomials in the Sobolev spaces.</i> B.G. Gabdulkhayev and L.B. Yermolayeva	4
<i>An implicit difference scheme for solving nonlinear equations of hydrodynamics.</i> Yu.M. Danilov and N.V. Nikonova	17
<i>p-saturated formations with complemented p-saturated subformations.</i> N.G. Zhevnova and A.N. Skiba	20
<i>The Valée-Poussin theorem for a class of functional-differential equations.</i> N.N. Likhacheva	27
<i>On the linear inverse from right operator for the convolution operator on the spaces of germs of analytical functions on convex compacts in \mathbb{C}.</i> S.N. Melikhov and Z. Momm	35
<i>A statistical estimation for the maximal eigenvalue of matrix.</i> S.Yu. Novak	46
<i>On lattice-universal varieties of algebras.</i> V.B. Repnitskiĭ	50
<i>Invariant spaces and dichotomies of solutions of a class of linear equations of the Sobolev type.</i> G.A. Sviridyuk and A.V. Keller	57
<i>The Riemann method for a three-dimensional hyperbolic equation of third order.</i> V.A. Sevast'yanov	66
<i>On the topologies over semigroups and groups, which are defined by families of deviations and norms.</i> Khamza Buzhuf and V.V. Mukhin	71
<i>On the complexes of two-dimensional planes in the projective space with a single critical line.</i> S.A. Laktionov	75

RUSSIAN MATHEMATICS (Iz. VUZ)

	Pages
<i>Stability of the equations with delay.</i> N.V. Azbelev and P.M. Simonov	1
<i>The admissibility of periodic processes and existence theorems for periodic solutions II.</i> V.V. Petrova and E.L. Tonkov	15
<i>A constructive investigation of differential equations with arbitrary deviation of argument .</i> A.N. Rumyantsev	22
<i>A differentiation operator with nonregular boundary conditions.</i> Yu.T. Sil'chenko	29
<i>On exponential stability of linear difference-differential systems.</i> P.M. Simonov and A.B. Chistyakov	34
<i>On a certain Köthe space determined by a differential operator.</i> S.D. Umalatov	46
<i>On extension of stochastic constraints in the class of finite-additive probabilities.</i> A.G. Chentsov	54
<i>The Caratheodory D-conditions and their connection with the D-continuity of the Nemytskii operator.</i> I.V. Shragin and Yu.V. Nepomnyashchikh	66

RUSSIAN MATHEMATICS (Iz. VUZ)

	Pages
<i>Estimates for mixed norms of the sums of double trigonometric series with multiply monotonous coefficients.</i> T.M. Vukolova and M.I. Dyachenko.....	1
<i>On the asymptotic proximity of the solutions of the Cauchy problem for first-order differential equations in a Banach space.</i> A.V. Glushak.....	12
<i>A generalization of the Dressler theorem.</i> Yu.Yu. Goryunov	16
<i>Embedding theorems and exterior cross measures.</i> V.S. Klimov	19
<i>On the global stability of the nonautonomous systems.</i> I. A.A. Kosov	26
<i>On estimation of the strong maximal functions.</i> A.K. Lerner	33
<i>Convergence of explicit difference schemes for a variational inequality of the theory of nonlinear nonstationary filtration.</i> M.Ye. Maiorova and M.F. Pavlova.....	46
<i>On equations with perturbed accretive mappings.</i> I.P. Ryazantseva	58
<i>Relative σ-boundedness of linear operators.</i> G.A. Sviridyuk, T.G. Sukacheva and L.L. Dudko	65
<i>Construction of the integral representation for solution of equilibrium equations in certain versions of theory of shells with a complicated geometry.</i> I.N. Sidorov	71

RUSSIAN MATHEMATICS (Iz. VUZ)

	Pages
<i>On the space of essential infinitesimal deformations.</i> A.V. Boyarshinova.....	1
<i>Existence of solutions for differential inclusions with partial derivatives of fractional order.</i> A.N. Vityuk.....	10
<i>Convergence of weighted sums of random elements in Banach spaces of type p.</i> A.I. Volodin.....	17
<i>Asymptotic behavior of random fields on the sequence of extending sets.</i> S.A. Yegishyan and Ye.I. Ostrovskii.....	23
<i>On the global stability of the nonautonomous systems. II.</i> A.A. Kosov.....	30
<i>Support theorem for the complex Radon transform.</i> A.B. Sekerin	40
<i>On geodesic mappings of special metric spaces.</i> E.N. Sosov	43
<i>On the Morita-contexts which arise in isomorphism between some subrings of the rings of endomorphisms.</i> S.N. Tronin.....	46
<i>Canonical description and inversion of operators in discrete space. I.</i> M.Sh. Yakupov ...	55
<i>On an inverse problem for the Christoffel-Schwarz integrals.</i> L.A. Aksent'ev, G.G. Bil'chenko	68
<i>Properties of bordism classes of framed submanifolds of Fredholm structure.</i> N.M. Ratiner	73

RUSSIAN MATHEMATICS (Iz. VUZ)

	Pages
<i>Infinitesimal bending of torus-like surface with polygonal meridian.</i> L.S. Velimirovich	1
<i>Infinitesimal projective transformations in the tangent bundle of general space of paths.</i> A.Yu. Dan'shin	6
<i>Second order projective deformation of a family L_{2n-1}^m.</i> T.B. Zhogova	11
<i>On the algebra of invariant affinor structures on the sphere S^5.</i> L.V. Lipagina	15
<i>General analytic and infinitesimal deformations of immersions.</i> I. P.E. Markov	19
<i>Submanifolds with symmetric fundamental forms of higher orders as envelopes.</i> V.A. Mirzoyan	33
<i>The three-dimensional Lie algebras of locally transitive transformations of space.</i> G.G. Mikhaĭlichenko	38
<i>An integral analog of the Darboux equations for immersions of two-dimensional metrics.</i> I.Kh. Sabitov	46
<i>Geometry of the Grassmann bundle.</i> I. N.K. Farafonova	54
<i>The Bianchi transformation of n-surfaces in E^{2n-1}.</i> M.A. Cheshkova	68
<i>Sectional curvatures of manifolds of the Kaluza-Klein type.</i> Ye.I. Yakovlev	72

RUSSIAN MATHEMATICS (Iz. VUZ)

	Pages
<i>Spectral analysis of difference operators with strongly continuous coefficients.</i> A.G. Baskakov	1
<i>A Cauchy problem with initial data on different surfaces for a system with singularity.</i> S.P. Bautin and A.L. Kazakov	11
<i>On approximation properties of higher derivatives of periodic functions.</i> V.E. Geit	22
<i>On the dynamics of a monotone mapping of n-od.</i> L.S. Yefremova and Ye.N. Makhrova ..	29
<i>Criterion for linear ordering of a partial automaton.</i> M.M. Kats	35
<i>On trigonometrical interpolation of functions of m-harmonic bounded variation.</i> A.A. Kel'zon	42
<i>On the radius of n-valent convexity and starlikeness for some special classes of analytical functions on a disk.</i> I.M. Kotsur, M.F. Kotsur	46
<i>On smooth partitions of unity over Banach manifolds.</i> O.V. Kunakovskaya	49
<i>On the relationship between some Liouville theorems on Riemannian manifolds of a special type.</i> A.G. Losev	56
<i>A new criterion for an operator to belong to the class $K(H)$.</i> L.I. Sukhocheva	61
<i>On the equations of dynamics of the non-Newton liquid which moves with sliding along bed.</i> S.L. Tonkonog	64
<i>On spectral properties of relatively finite-dimensional perturbations of selfadjoint operators.</i> E.L. Ul'yanova	72
<i>On a Pearcy-Shields problem.</i> N.B. Uskova	76

RUSSIAN MATHEMATICS (Iz. VUZ)

	Pages
<i>A method of perturbation for the differential-algebraic systems.</i> M.V. Bulatov	1
<i>On finite groups whose principal factors are simple groups.</i> A.F. Vasil'yev and T.I. Vasil'yeva	8
<i>Investigation of systems of linear Diophante inequalities by the group theory methods.</i> A.A. V'yalitsin	13
<i>Universal Cartan extension.</i> Yu.B. Yermolayev	20
<i>Certain aspects of representation of fuzzy operators in the form of a ratio of two polynomials.</i> T.M. Ledenyova	31
<i>General analytic and infinitesimal deformations of immersions, II.</i> P.E. Markov	38
<i>On the \aleph-identity of epimorphy and embeddability relations on quasivarieties.</i> A.G. Pinus	49
<i>On a criterion for the stability of a scalar equation with constant delay and periodical coefficient.</i> S.M. Sedova	58
<i>Thermodynamical potentials and mathematical simulation of the process of flow of viscous media.</i> I.G. Teregulov	69

RUSSIAN MATHEMATICS (Iz. VUZ)

	Pages
<i>Computation of fixed points of symmetric extremal mappings.</i> A.S. Antipin.....	1
<i>A modified simplex immersions method with simultaneous introduction of several intersecting planes.</i> E.V. Apekina, O.V. Khamisov	14
<i>Bin packing: An asymptotically exact approach.</i> E.Kh. Gimadi and V.V. Zalyubovskii	23
<i>The problem of strip packing: An asymptotically exact approach.</i> E.Kh. Gimadi, V.V. Zalyubovskii and P.I. Sharygin	32
<i>A modified Lagrange function for the linear programming problems.</i> A.I. Golikov and Yu.G. Yevtushenko	43
<i>Some questions of piecewise linear programming.</i> I.I. Yeryomin	47
<i>Second order algorithm with parameterized directions for conditional optimization problems.</i> I.Ya. Zabotin	60
<i>Algorithm for solving a problem on optimal linear ordering.</i> G.G. Zabudskii	71
<i>On systems of variational inequalities.</i> I.V. Konnov	77
<i>On a partition of a convex polytope into simplexes without new vertices.</i> V.N. Shevchenko	87