

NATIONAL
ACADEMY
OF SCIENCES
OF UKRAINE

PIDSTRYHACH
INSTITUTE OF
APPLIED PROBLEMS
OF MECHANICS AND
MATHEMATICS

MATHEMATICAL METHODS and PHYSICOMECHANICAL FIELDS

SCIENTIFIC JOURNAL

FOUNDED IN 1975

Vol. 60, No. 3

L'viv 2017

CONTENTS

<i>Ivasyshen S. D., Medynsky I. P.</i> Classical fundamental solution of the Cauchy problem for ultraparabolic Kolmogorov-type equations with two groups of spatial variables of degeneration. I	9
<i>Baranetskiy Ya. O., Kalenyuk P. I.</i> Nonlocal multipoint problem for an ordinary differential equation of order $2n$ with a multiple spectrum	32
<i>Kalenyuk P. I., Volyans'ka I. I., Il'kiv V. S., Nytrebych Z. M.</i> On unique solvability of three-point problem for partial differential equation in a two-dimensional domain	46
<i>Bodnar D. I. Bilanyk I. B.</i> On convergence of branched continued fractions of the special form in angular domains	60
<i>Kuchminska Kh. Yo., Vozna S. M.</i> Development of N -multiple power series into N -dimensional regular C -fraction	70
<i>Antonova T. M., Sus' O. M.</i> On figured relative stability under perturbations of two-dimensional continued fractions with complex elements	76
<i>Plyatsko R. M., Fenyk M. T.</i> Equations of dynamics of a spinning particle in general relativity	89
<i>Kyrchei I. I.</i> Determinantal representations of a solution to the quaternion generalized Sylvester matrix equation	97
	5

<i>Zagorodnyuk A. V., Kravtsiv V. V.</i> A multiplicative convolution on the algebra of block-symmetric analytic functions	107
<i>Bandura A. I., Skaskiv O. B., Tsvigun V. L.</i> Analytic in $\mathbb{D} \times \mathbb{C}$ functions of bounded \mathbf{L} -index in joint variables	115
<i>Vasylyshyn T. V.</i> Algebras of entire symmetric functions on spaces of Lebesgue measurable essentially bounded functions	122
<i>Pryimak H. M.</i> Non-classical differentiation in algebras of analytical functions of bounded type	133
<i>Martsinkiv M. V.</i> Algebras of Lipschitz-analytic maps	138