

C O N T E N T S

Dmytro BODNAR, Maria BUBNYAK	
On convergence of 1-periodic branched continued fraction of special form	5
Taras VASYLYSHYN	
Construction of complex-valued functions by pre-defined values of integrals of their powers	17
Nataliya HOYENKO, Tamara ANTONOVA, Sergij RAKINTSEV	
Approximation for rations of Lauricella-Saran functions F_S with real parameters by branched continued fractions	28
Vasyl' DAVYDOVYCH	
Exact solutions of a reaction-diffusion equations system modeling the predator-prey interaction	43
Maryan DMYTRYSHYN	
Exponential type vectors of closed operators on tensor products	60
Roman DMYTRYSHYN	
About some regions of convergence of a multidimensional J -fraction with independent variables	69
Andriy ZAGORODNYUK, Zoryana MOZHYROVSKA	
Composition operators on a Hilbert space	78
Roman ZATORSKY	
Paradeterminant product of triangle matrices and its properties	87
Myhailo KOPACH, Anatolij OBSHTA, Bohdan SHUVAR	
The iterative aggregation for non-linear operator equations	99

Viktoria KRAVTSIV	
Algebra of block-symmetric polynomials: generating elements and translation operator	107
Andriy LOPUSHANSKY	
The regularity of abstract Cauchy problem solutions for semi-linear parabolic equation	122
Volodymyr MASLYUCHENKO, Vasyl' NESTERENKO	
Decomposition of continuity and transition maps	132
Bogdana OLIYNYK	
Metric realization of regular permutation groups	151
Mykhailo OSYPOCHUK, Mykola PORTENKO	
A Limit distribution for local times at zero of a sequence of diffusion processes	167
Aleksandr SAVCHENKO	
Functors on the category of K -ultrametric spaces	184
Andriy SEMECHUK	
Estimation of convergence error of the rational estimations of recurrence single periodical fractions of 3-d order to their values ...	199
Oleh SKASKIV, Olga ZADOROZHNA	
Inequalities of Viman type without exceptional sets for double entire Dirichlet series	207
Ivan TVERDOKHLIB, Myroslava VOVK, Mykola PRYTULA, Yarema PRYKARPATSKY	
An economical equilibrium consumption mathematical model with fuzzy given parameters of an associated financial network	217

- Sergii SHARYN
Shift semigroups in the algebra of polynomial Schwartz tempered
distributions 230
- Roman SHEVCHUK
Inhomogeneous diffusion processes on a half-line, generated by the
differential operator with Feller-Wentzel boundary condition ... 243
- Denis BLACKMORE, Yarema PPRYKARPATSKY, Jolanta GOLENIA,
Anatoliy PRYKARPATSKY
The AKNS hierarchy and the Gurevich-Zybin dynamical system
integrability revisited 258
- Igor GAPYAK, Viktor GERASIMENKO
On the evolution of observables and the Enskog kinetic
equation 283
- Oleh NYKYFORCHYN, Oksana MYKYTSEY
 L -idempotent linear operators between predicate semimodules, dual
pairs and conjugate operators 299
- Michael OLEKSIENKO
Hardy type spaces on reduced Heisenberg groups 315
- Lilia SKASKIV, Orest ARTEMOVYCH
Groups with many Černikov-by-nilpotent subgroups 328
- Oleh SKASKIV, Andriy KURYLIAK
The probability of absence zeros in the disc for some random analytic
functions 335