

Report of "Transactions of Azerbaijan National Academy of Science, series of physico -technical and mathematical sciences, issue mathematics" for the year of 2021

The site of the journal Transactions of Azerbaijan National Academy of Science, series of physico-technical and mathematical sciences, issue mathematics (sayt-www.trans.imm.az; e-mail-transactions@imm.az) is daily updated. The published papers are placed in the site. We regularly keep close relations with the members of the editorial board of the journal by e-mail. This year two numbers of the journal have appeared, (41 (1), 2021-June and 41 (4), 2021-december). Both numbers were placed in site.

The journal has joined international agency as Jurnal Scopus-SJR2020-IF-0,29-Q3, MathSciNet, Math-Net.Ru.

We keep close relations with foreign authirs and do works this journal to find its place in international agencies as Thomson Reuters.

Volume 41 (2021), Issue 1
MATHEMATICS

Bounded weak solutions for implicit Hadamard fractional differential equations on reflexive Banach spaces	3 – 15
by Said Abbasa, Mouffak Benchohrab, JamalEddine Lazregb, Yong Zhou	
Approximate solution of a class of nonlinear singular integral equations by the Newton-Kantorovich method	16 – 23
by Fuad A.Abdullayev	
On regular solvability of a boundary value problem for a fourth order operator differential equation on a finite segment	24 – 34
by Hamidulla I. Aslanov, Gunel M. Eyvazly	
Stochastic analysis to a power supply system through reliability modelling	35 – 43
by Jasdev Bhatti, Mohit K. Kakkar, Manpreet Kaur	
Generating functions of the products of Gaussian numbers with Chebyshev polynomials of first and second kinds	44 – 59
by Souhila Boughaba, Hind Merzouk, Ali Boussayoud, Nabiha Saba	
Sufficient conditions for uniform exponential stability of some classes of dynamic equations on time scales and applications	60 – 70
by Khaled Boukerrioua, Dallel Diabi, Meissoun Meramria, Mohamed Ali Hammami	
Weakly semi-I-open sets in ideal bitopological spaces	71 – 77
by Diganta Jyoti Sarma, Santanu Acharjee	
On the outer connected geodetic number of a graph	78 – 84
by K. Ganesamoorthy, D. Jayanthi	
Introduction to Fuzzy Topology on Soft Sets	85 – 97
by Cigdem Gunduz Aras, Sadi Bayramov, Kemale Veliyeva	
Characterizations of Lipschitz functions via commutators generated by parametric Marcinkiewicz integral on generalized Orlicz-Morrey spaces	98 – 109

by Sabir G. Hasanov, Fatayi A. Isayev, Zaman V. Safarov	
Global bifurcation of positive and negative solutions from infinity in some quasi-linear elliptic problems with sign-changing weight	110 – 117
by Shanay M. Hasanova	
On solvability of an inverse boundary value problem for the Boussinesq-Love equation with periodic and integral condition	118 – 132
by Nizameddin Sh. Isgenderov, Seriyev I. Allahverdiyeva	
The zeros of modified Bessel functions as functions of their order	133 – 137
by Afag F. Mamedova, Agil Kh. Khanmamedov	
Nonsingular integral on weighted Orlicz spaces	138 – 145
by Mehriban N. Omarova	
Nil clean divisor graph	146 – 153
by A. Sharma, D. K. Basnet	
Determination of a time-dependent coefficient in a non-linear hyperbolic equation with non-classical boundary condition	154 – 171
by Ibrahim Tekin	
On a boundary value problem for Benney-Luke type differential equation with nonlinear function of redefinition and integral conditions	172 – 183
by Tursun K. Yuldashev, Farkhod D. Rakhmonov	

Volume 41 (2021), Issue 4

MATHEMATICS

Multilinear commutators of parabolic Calderon-Zygmund operators on generalized weighted variable parabolic Morrey spaces	3 – 16
by A.A. Ahmadli, A. Akbulut, F.A. Isayev, A. Serbetci	
On solvability of a boundary value problem for a second order elliptic differential-operator equations with a complex linear parameter	17 – 30
by Bahram A. Aliev, Vugar Z. Kerimov	
Existence and approximation of solutions for nonlinear hybrid Caputo-Hadamard fractional integro-differential equations via Dhage iteration principle	31 – 41
by Abdelouaheb Ardjouni	
Correction to "Two-Weighted Inequalities for the Riesz Potential in p-Convex Weighted Modular Banach Function Spaces"	42 – 44
by Rovshan A. Bandaliyev, Vagif S. Guliyev, Sabir G. Hasanov	
A new characterization of simple groups ${}^2D_n(3)$	45 – 50
by Behnam Ebrahimzadeh	
Further results on the outer connected monophonic number of a graph	51 – 59
by K. Ganesamoorthy, S. Lakshmi Priya	
Some spectral properties of Sturm-Liouville problem with a spectral parameter in the boundary conditions	60 – 68
by Sevinj S. Hadiyeva	
On spectral properties of multivalued production mappings in economic dynamics models	69 – 77
by Sabir I. Hamidov	

On the completeness of the system of Weber functions by Hidayat M. Huseynov, Khatira E. Abbasova	78 – 82
Some weighted inequalities for Gegenbauer fractional integrals by Elman J. Ibrahimov, Gulqayit A. Dadashova, Saadat Ar. Jafarova	83 – 99
Calderon-Zygmund operators with kernels of Dini's type and their multilinear commutators on generalized Morrey spaces by Afag F. Ismayilova	100 – 111
Criteria for componentwise uniform equiconvergence with trigonometric series of spectral expansions responding to discontinuous Dirac operator by Vali M. Kurbanov, Leyla Z. Buksayeva, Aytekin I. Ismailova	112 – 124
Cantor functions associated with generalized expansions by Yoshihiro Sawano, Haruka Fujiwara	125 – 130
Asymptotic behaviour of solutions of mixed problem for linear thermoelastic systems with microtemperatures and microstretch by Gulshan Kh. Shafiyeva	131 – 140
Limit theorems for homogeneous branching processes with migration by Khrystyna M. Yakymyshyn, Iryna B. Bazylevych, Soltan A. Aliyev	141 – 152
Horizontal lift in the semi-tangent bundle and its applications by Furkan Yildirim	153 – 165
Vertical rescaled berger deformation metric on the tangent bundle by Abderrahim Zagane	166 – 180

Editor-in-Chief

**Corr. member of ANAS,
prof. V.S. GULIYEV**