

**Azərbaycan Milli Elmlər Akademiyasının Xəbərləri,  
fizika-texnika və riyaziyyat elmləri bölməsi, riyaziyyat buraxılışı jurnalının  
2020-ci ilin illik hesabatı**

"Azərbaycan Milli Elmlər Akademiyasının Xəbərləri, fizika-texnika və riyaziyyat elmləri bölməsi, riyaziyyat buraxılışı" jurnalının onlayn saytı (sayt-www.trans.imm.az; e-mail-transactions@imm.az) hər gün yenilənir, çap olunan məqalələr saytda öz yerini tutur, mütəmadi olaraq jurnalın redaksiya heyətinin üzvləri ilə yaxından əlaqə saxlanılaraq elektron poçt ünvanlarına göndərilən məqalələrin oxunmasında və düzgün rəylərin alınmasında yaxından iştirakları təşkil olunur. Bu il jurnalın iki buraxılışı (**40 (1), 2020-iyun, 40 (4), 2020-dekabr**) çap olunmuş və saytda yerləşdirilmişdir.

Jurnal Scopus, MathSciNet, Math-Net.Ru kimi beynəlxalq agentliyə qoşulub.

Xarici ölkə müəllifləri ilə mütəmadi əlaqələr saxlanılır və jurnalın Thomson Reuters kimi beynəlxalq agentliklərdə öz yerini tapması istiqamətində işlər aparılır.

---

**Volume 40 (2020), Issue 1**

**MATHEMATICS**

<a href="#"><u>Spanne-type characterization of parabolic fractional integral and its commutators in parabolic generalized Orlicz-Morrey spaces</u></a>	3 – 15
by Gulnara A. Abasova	
<a href="#"><u>Transformation operators for the Schrodinger equation with a linearly increasing potential</u></a>	16 – 20
by Khatira E. Abbasova, Agil Kh. Khanmamedov	
<a href="#"><u>An analogue of the Riesz theorem in Hardy-Morrey classes</u></a>	21 – 27
by Miran I. Aleskerov	
<a href="#"><u>Mixed problem for one-dimensional wave equation with dynamic boundary condition</u></a>	28 – 40
by Akbar B. Aliev, Samira O. Rustamova	
<a href="#"><u>The Cech homology theory in the category of soft topological spaces</u></a>	41 – 51
by Cigdem Gunduz Aras, Sebuhi Abdullayev	
<a href="#"><u>Existence of solutions for a resonant problem under Landesman-Lazer type conditions involving more general elliptic operators in divergence form</u></a>	52 – 65
by Rabil Ayazoglu (Mashiyev), Sidika Sule Sener, Tuba Agirman Aydın	
<a href="#"><u>Fractional maximal operator and its higher order commutators in generalized weighted Morrey spaces on Heisenberg group</u></a>	66 – 78
by Javanshir V. Azizov	
<a href="#"><u>Non-existence of global solution of a semi-linear parabolic equation with a singular potential</u></a>	79 – 87
by Shirmail G. Bagirov, K.A. Guliyev	

---

<a href="#">On uniform equiconvergence for Dirac type <math>2m \times 2m</math> systems</a>	88 – 95
by Gunel R. Hajiyeva	
<a href="#">Maximal operator with rough kernel and its commutators in generalized weighted Morrey spaces</a>	96 – 110
by Vugar H. Hamzayev	
<a href="#">On the boundedness of the G-maximal operator and G-Riesz potential in the generalized G-Morrey spaces</a>	111 – 125
by Ibrahimov Elman J., Gulqayit A. Dadashova, S.E. Ekinoglu	
<a href="#">On the characterization of tripled partial metrics and tripled quasi-metrics</a>	126 – 134
by Khalilzadeh Ranjbar Ghorban, Mohammad Esmael Samei	
<a href="#">On embeddings into the Morrey and modified Morrey spaces in the Dunkl setting</a>	135 – 145
by Fatma A. Muslumova	
<a href="#">On global continua of solutions bifurcating from zero and infinity of some nonlinear fourth order eigenvalue problems</a>	146 – 151
by Natavan A. Mustafayeva	
<a href="#">Analytical expressions for curved surface area of revolution and arc-length of an ellipse: A hypergeometric mechanism</a>	152 – 160
by M.I. Qureshi, Naved Akhtar, Dilshad Ahamad	
<a href="#">An exponentially fitted scheme for solving singularly perturbed delay problems</a>	161 – 176
by Rakesh Ranjan, H.S. Prasad	
<a href="#">Asymptotics of solution of a boundary value problem for a singularly perturbed quasilinear one-characteristic equation</a>	176 – 186
by Mahir M. Sabzaliev, Mahbuba E. Kerimova	
<a href="#">Neutrosophic G-modules</a>	187 – 195
by Kemale Veliyeva	

---

## Volume 40 (2020), Issue 4

### MATHEMATICS

<a href="#">Corr.-member of NASA Mais Habib oglu Javadov. In memory on his 90-th birthday</a>	3
by Misir J. Mardanov, Mahir M. Sabzaliev	
<a href="#">Uniform convergence of the Fourier series expansions in the subsystems of root functions of some spectral problem for ordinary differential equations of fourth order</a>	4 – 12

---

---

by Konul F. Abdullayeva	
<a href="#">Anisotropic fractional maximal commutators with BMO functions on anisotropic Morrey-type spaces</a>	13 – 32
by Ali Akbulut, Victor I. Burenkov, Vagif S. Guliyev	
<a href="#">Some notes on the <math>g_h</math>-lifts of affine connections</a>	33 – 39
by Rabia Cakan Akpinar	
<a href="#">Reliability of a series system with redundancy and one repair facility</a>	40 – 48
by Yuriy V. Zhernovyi, Soltan A. Aliyev, Yaroslav I. Yeleyko	
<a href="#">Some differential properties of grand generalized Sobolev-Morrey spaces</a>	49 – 57
by Rovshan F. Babayev	
<a href="#">Justification of collocation method for one class of curvilinear integral equations</a>	58 – 65
by Mehpara N. Bakhshaliyeva	
<a href="#">The behavior of solutions of nonlinear degenerate parabolic equations in nonregular domains and removability of singularity on boundary</a>	66 – 74
by Tahir S. Gadjiev, Konul Mamedova	
<a href="#">Global bifurcation of the nondifferentiable Sturm-Liouville problems with indefinite weight and spectral parameter in the boundary condition</a>	75 – 84
by Ulkar V. Gurbanova	
<a href="#"><math>(P;p)</math>-admissible multi-sublinear singular integral operators in product generalized local Morrey spaces</a>	85 – 96
by Amil A. Hasanov	
<a href="#">On one nonlocal inverse boundary problem for the second-order elliptic equation</a>	97 – 109
by Nergiz A. Heydarzade	
<a href="#">Multi-sublinear operators generated by multilinear Calderon-Zygmund operators on product generalized Morrey spaces</a>	110 – 117
by Afaq F. Ismayilova, Fatayi A. Isayev	
<a href="#">On approximation of a weighted Lipschitz class functions by means <math>t_n(f;x)</math>, <math>N_n^{\beta}(f;x)</math> and <math>R_n^{\beta}(f,x)</math> of Fourier series</a>	118 – 129
by Sadulla Z. Jafarov	
<a href="#">Fractional maximal commutator on Orlicz spaces for the Dunkl operator on the real line</a>	130 – 144
by Yagub Y. Mammadov, Fatma A. Muslumova, Zaman V. Safarov	
<a href="#"><math>\xi</math>-Double Strongly Summable Sequences of order <math>\theta</math></a>	145 – 152
by Rabia Savas	

---

---

<a href="#"><u>Operator-valued Fourier multipliers in vector-valued function spaces and application</u></a>	153 – 174
by Veli B. Shakhmurov	
<a href="#"><u>Randic Type Hadi Index of Graphs</u></a>	175 – 181
by P. Siva Kota Reddy, K.N. Prakasha, Ismail Naci Cangul	
<a href="#"><u>Some new beta integral inequalities</u></a>	182 – 187
by Deniz Ucar	
<a href="#"><u>Geodesics on tangent bundles with horizontal Sasaki gradient metric</u></a>	182 – 197
by Abderrahim Zagane	

---

**Baş redaktor**

**AMEA-nın müxbir üzvü,  
prof. V.S. QULIYEV**