



CONTENTS

A. Ahmad, M. Imran, O. Al-Mushayt, and S. A. U. H. Bokhary On the metric dimension of barycentric subdivision of Cayley graphs $Cay(Z_n \oplus Z_m)$	637
C.G. Alizadeh, S.M. Vaezpour, and A. Petruşel Generalized equilibrium problems in abstract convex spaces	647
N. Ashrafi and Z. Ahmadi $g(x)$ -full clean rings	657
Çiğdem Atakut, İbrahim Büyükyazıcı, and Sevilay K. Serenbay Approximation properties of Baskakov-Balazs type operators for functions of two variables	667
Vinod K. Bhardwaj, Vishal Gupta, and Raman Deep Some fixed point results for A -contractions in 2-metric spaces and their applications	679
Naim L. Braha Tauberian conditions under which λ -statistical convergence follows from statistical summability (V, λ)	695
Naim L. Braha Structure of Cesaro second order function spaces	705
Yuze Cai, Yutian Lei, and Bei Wang On the zero of a radial minimizer of p -Ginzburg-Landau type	713
İbrahim Çanak and Ümit Totur On subsequential convergence of bounded sequences	721
I. Cherevko and O. Osypova Asymptotic decomposition of linear singularly perturbed multiscale systems	729



CONTENTS

M.K. Daulybayev and N. Atakhan

The initial jumps of solutions and integral terms in singular BVP of linear
higher order integro-differential equations 747

Colin Defant

A note about iterated arithmetic functions 763

Basudeb Dhara, Nadeem ur Rehman, and Mohd Arif Raza

Lie ideals and action of generalized derivations in rings 769

B. Dhara, S. Kar, and K. G. Pradhan

Generalized derivations acting as homomorphism or anti-homomorphism
with central values in semiprime rings 781

M. F. Elettrey and Shaban Aly

Optimal control of a two teams prey-predator interaction model 793

Ayhan Esi and Hemen Dutta

Some sets of double lacunary invariant sequences defined by four dimensional
summable matrices and Orlicz functions 805

István Fazekas and Bettina Porvázsnnyik

Some limit theorems for generalized allocation schemes 817

Iva Franjić and Josip Pečarić

Refinements of the lower bounds of Jensen's functional revisited 833

Yan Gu, Guangjun Zhu, and Xiaoqi Wei

Castelnuovo-Mumford regularity of fiber cones of filtered modules 843

Sinem Güler and Sezgin Altay Demirbağ

On Ricci symmetric generalized quasi Einstein spacetimes 853

Yue Hu and Yueshan Wang

Parametric Marcinkiewicz integrals on weighted Herz spaces 869



CONTENTS

Anurag Jayswal, Izhar Ahmad, and Krishna Kummari	
Optimality conditions and duality in multiobjective fractional programming involving right upper-Dini-derivative functions	887
Emrah Evren Kara and Serkan Demiriz	
Some new paranormed difference sequence spaces derived by Fibonacci numbers	907
Olcay Karaathlı and Refik Keskin	
On the equations $U_n = 5\Box$ and $V_n = 5\Box$	925
M.S. Khan, M. Berzig, and S. Chandok	
Fixed point theorems in bimetric space endowed with binary relation and applications	939
S. Kızıltuğ and M. Önder	
Associated curves of Frenet curves in three dimensional compact Lie group	953
Hidayet Hüda Kösal, Mahmut Akyiğit, and Murat Tosun	
Consimilarity of commutative quaternion matrices	965
Berna Koşar and Celil Nebiyev	
tg-supplemented modules	979
O. Leontiev and P. Feketa	
A new criterion for the roughness of exponential dichotomy on $\mathbb{R}$	987
Shangzhao Li	
Nonexistence of $2 - (v, k, 1)$ designs admitting automorphism groups with socle $E_8(q)$	995
Chawla Meenakshi, M. S. Saroa, and V. Kumar	
On Λ -statistical convergence of order α in random 2-normed space	1003



CONTENTS

<i>Emina I. Milovanović and Igor Ž. Milovanović</i> Sharp bounds for the first Zagreb index and first Zagreb coindex	1017
<i>Svetislav M. Minčič, Mića S. Stanković, and Milan Lj. Zlatanović</i> Ricci Coefficients of Rotation of Generalized Finsler Spaces	1025
<i>E. Moradi, E. Babolian, and S. Javadi</i> The explicit formulas for reproducing kernel of some Hilbert spaces . . .	1041
<i>Esmail Nazari</i> Best proximity points for generalized multivalued contractions in metric spaces	1055
<i>Ismail Nikoufar</i> Refined almost double derivations and Lie $*$ -double derivations	1063
<i>Mehmet Ali Özarslan and Tuba Vedi</i> Direct and inverse theorems for multivariate Bernstein-Schurer-Stancu op- erators	1073
<i>M. Ramezani, H. Jafari, S.J. Johnston, and D. Baleanu</i> Complex B -spline collocation method for solving weakly singular Volterra integral equations of the second kind	1091
<i>Tsetska Rashkova</i> PI-properties of some matrix algebras with involution	1105
<i>M. Raza, W. Ul-Haq, and S. Noreen</i> Regions of variability for Janowski functions	1117
<i>M. Rontó and Y. Varha</i> Successive approximations and interval halving for integral boundary value problems	1129



CONTENTS

Recep Şahin and Susan Ridha Shakor Agha

Recursion formulas for G_1 and G_2 Horn hypergeometric functions 1153

Jelena Sedlar

Extremal unicyclic graphs with respect to additively weighted Harary index 1163

Sefa Anıl Sezer and İbrahim Çanak

Convergence and subsequential convergence of regularly generated sequences 1181

S. P. Sidorov

On the saturation effect for linear shape-preserving approximation in Sobolev spaces 1191

José M. Sigarreta

Bounds for the geometric-arithmetic index of a graph 1199

Tanja Stojadinović

Inversion formulas for graphs 1213

Ahmet Tekcan, Merve Tayat, and Péter Olajos

Balancing, Pell and square triangular functions 1219

H. Ansari-Toroghy and S. S. Pourmortazavi

On the prime spectrum of modules 1233

Ü. Totur and M. A. Okur

On Tauberian remainder theorems for Cesàro summability method of non-integer order 1243

M. Uddin, Z. Minullah, A. Ali, and Kamran

On the local kernel based approximation of highly oscillatory integrals . . 1253