

CONTENTS

Hanan Alolaiyan, Basit Ali, Mujahid Abbas	
Characterization of a b-metric space completeness via the existence of a fixed point of Cirić-Suzuki type quasi-contractive multivalued operators and Applications	5
Arzu Cihan, Ayse Zeynep Azak, Mehmet Ali Gungor, Murat Tosun	
A Study on Dual Hyperbolic Fibonacci and Lucas Numbers	35
Carmelo Cisto, Gioia Failla, Rosanna Utano	
On the generators of a generalized numerical semigroup	49
Iryna Denega and Yaroslav Zabolotnii	
Problem on extremal decomposition of the complex plane	61
Jan Kuske and Stefania Petra	
Performance Bounds For Co-Sparse Box Constrained Signal Recovery	79
D. Mallika, D. Băleanu, S. Suganya and M. Mallika Arjunan	
Existence results for fractional neutral integro-differential systems with nonlocal condition through resolvent operator	107
M. Marin, A. Chirilă, L. Codarcea and S. Vlase	
On vibrations in Green-Naghdi thermoelasticity of dipolar bodies .	125
Mohsen Khaleghi Moghadam and Renata Wieteska	
Existence and uniqueness of positive solution for nonlinear difference equations involving $p(k)$ -Laplacian operator	141
Elham Mohammadzadeh, Rajab Ali Borzooei	
Engel, nilpotent and solvable BCI-algebras	169
Saber Omidi and Bijan Davvaz	
Hyperideal theory in ordered Krasner hyperrings	193
D. Piciu, C. Dan and F. Chirteș	
Some decompositions of filters in residuated lattices	211

Donal O'Regan	
Leray-Schauder type alternatives and extensions	233
Borumand Saeid and R. Koohnavard	
On residuated skew lattices	245
H. Shojaei, R. Ameri and S. Hošková-Mayerová	
Pre-semihyperadditive Categories	269
Vasile-Florin Uță	
Multiple solutions for eigenvalue problems involving an indefinite potential and with $(p_1(x); p_2(x))$ balanced growth	289