

ROCKY MOUNTAIN JOURNAL OF MATHEMATICS

Volume 50

2020

Number 6

Existence results for a nonlinear coupled system involving both Caputo and Riemann–Liouville generalized fractional derivatives and coupled integral boundary conditions BASHIR AHMAD, MADEAHA ALGHANMI AND AHMED ALSAEDI	1901
Oscillation and nonoscillation criteria for four-dimensional advanced and delay time-scale systems ELVAN AKIN AND GÜLŞAH YENI	1923
Quasilinear elliptic systems with right-hand side in divergence form ELHOUSSINE AZROUL AND FARAH BALAADICH	1935
Index of symmetry and topological classification of asymmetric normed spaces MOHAMMED BACHIR AND GONZALO FLORES	1951
Structure of spectra of precompletions ERICA BARRETT, EMIL GRAF, SUSAN LOEPP, KIMBALL STRONG AND SHARON ZHANG	1965
Topology inside ω_1 HAROLD BENNETT AND DAVID LUTZER	1989
Generalized weakly singular integral inequalities with applications to fractional differential equations with respect to another function SALAH BOULARES, ABDELLATIF BEN MAKHLOUF AND HASSANE KHELLAF	2001
Hermite–Hadamard inequality for semiconvex functions of rate (k_1, k_2) on the coordinates and optimal mass transportation PING CHEN AND WING-SUM CHEUNG	2011
On certain groups with G -contrainvariant subspaces MARTYN R. DIXON, LEONID A. KURDACHENKO AND IGOR YA. SUBBOTIN	2023
The N -measure for algebraic integers having all their conjugates in a sector VALÉRIE FLAMMANG	2035
Interval oscillation criteria for linear matrix Hamiltonian systems GEVÓRG AVÁGOVICH GRIGORIAN	2047
Boundary value problems for fractional differential inclusions with nonlocal multipoint boundary conditions NASSIM GUERRAICHE, SAMIRA HAMANI AND JOHNNY HENDERSON	2059
An overview on the bipartite divisor graph for the set of irreducible character degrees ROGHAYEH HAFEZIEH AND PABLO SPIGA	2073
Counterexamples to the local-global principle associated with Swinnerton-Dyer’s cubic form YOSHINOSUKE HIRAKAWA	2097

CONTENTS CONTINUED ON LAST PAGE

Counting topologically invariant means on $L_\infty(G)$ and $VN(G)$ with ultrafilters JOHN HOPFENSBERGER	2103
On primes dividing the index of a quadrimomial ANUJ JAKHAR	2117
Global well-posedness of the 3D incompressible Hall-MHD equations for small initial data in certain Besov spaces CAOCHUAN MA	2127
Existence of solution for fractional Neutral hybrid differential equations with finite delay MOHAMMED M. MATAR	2141
Primary rank of the class group of real cyclotomic fields MOHIT MISHRA, RISHABH AGNIHOTRI AND KALYAN CHAKRABORTY	2149
Lyubeznik and Betti numbers for homogeneous ideals PARVANEH NADI AND FARHAD RAHMATI	2157
On the equation $y^2 = x^6 + k$ NGUYEN XUAN THO	2167
Counting all unfolded self-avoiding walks on a finite lattice strip of width three MICHAEL A. NYBLUM	2179
Implicit radial point interpolation method for nonlinear space fractional advection-diffusion equations XINQIANG QIN, DAYAO PENG AND GANG HU	2199
Hopf bifurcation of the fractional-order Hindmarsh–Rose neuron model with time-delay MIN SHI, YAJUAN YU AND QI XU	2213
A note on Titchmarsh divisor problem under the generalized Riemann hypothesis HENGCAI TANG	2223
Three positive solutions of fourth-order problems with clamped beam boundary conditions DONGLIANG YAN	2235
Cyclic Brunn–Minkowski inequalities for dual mixed volumes LINMEI YU, YUANYUAN ZHANG AND WEIDONG WANG	2245
Ramanujan-type congruences for overpartitions modulo 3 LI ZHANG	2257
Maps preserving the c -numerical radius of products for operators in $\mathfrak{B}(H)$ YANFANG ZHANG AND XIAOCHUN FANG	2265
Index.....	2281