

ROCKY MOUNTAIN JOURNAL OF MATHEMATICS

Volume 48

2018

Number 1

CONTENTS

On a sine polynomial of Turán BY HORST ALZER AND MAN KAM KWONG	1
Multivariable isometries related to certain convex domains BY AMEER ATHAVALE	19
Fixed points of augmented generalized happy functions BY BREEANNE BAKER SWART, KRISTEN A. BECK, SUSAN CROOK, CHRISTINA EUBANKS-TURNER, HELEN G. GRUNDMAN, MAY MEI AND LAURIE ZACK	47
Root power sums and Chebyshev polynomials BY STEFANO CAPPARELLI	59
Constrained shape preserving rational cubic fractal interpolation functions BY A.K.B. CHAND AND K.R. TYADA	75
The real-rootedness of generalized Narayana polynomials related to the Boros-Moll polynomials BY HERMAN Z.Q. CHEN, ARTHUR L.B. YANG AND PHILIP B. ZHANG	107
Reciprocal relations for trigonometric sums BY WENCHANG CHU	121
On topological spaces that have a bounded complete DCPO model BY ZHAO DONGSHENG AND XI XIAOYONG	141
On quasi-normality of function rings BY THEMBA DUBE	157
Construction of globalizations for partial actions on rings, algebras, C^* -algebras and Hilbert bimodules BY DAMIÁN FERRARO	181
Generalized palindromic continued fractions BY DAVID M. FREEMAN	219
Recurrence relation for computing a bipartition function BY D.S. GIREESH AND M.S. MAHADEVA NAIKA	237

CONTENTS CONTINUED ON LAST PAGE

α -positive/ α -negative definite functions on groups BY JAESEONG HEO	249
An identity for cocycles on coset spaces of locally compact groups BY H. KUMUDINI DHARMADASA AND WILLIAM MORAN	269
Spectral inclusion for unbounded diagonally dominant $n \times n$ operator matrices BY TULKIN H. RASULOV AND CHRISTIANE TRETTER	279
On rational triangles via algebraic curves BY MOHAMMAD SADEK AND FARIDA SHAHATA	325