

ROCKY MOUNTAIN JOURNAL OF MATHEMATICS

Volume 33

Fall 2003

Number 3

CONTENTS

An Extremal Nonnegative Sine Polynomial BY ROBERTO ANDREANI AND DIMITAR K. DIMITROV	759
The Asymptotic of Solutions for a Class of Delay Differential Equations BY JAN ČERMÁK	775
Graphs of Convex Functions are σ_1 -Straight BY RICHARD DELAWARE	787
A Polynomial Variant of a Problem of Diophantus and Euler BY ANDREJ DUJELLA AND CLEMENS FUCHS	797
Conjugate Inequalities BY A.M. FINK	813
Generation of Analytic Semigroups by Differential Operators with Mixed Boundary Conditions BY JOSÉ M. GALLARDO	831
Sums of Biquadrates and Cubes in $\mathbf{F}_q[t]$ BY LUIS GALLARDO	865
Multiplicative SK Invariants on Z_n -Manifolds with Boundary BY TAMIO HARA	875
Interpolation Problems in CSL-Algebra $ALG\mathcal{L}$ BY YOUNG SOO JO AND JOO HO KANG	903
On Some Properties of Deddens Algebras BY M.T. KARAEV AND H.S. MUSTAFAYEV	915
Oscillation Criteria for Second-Order Half-Linear Ordinary Differential Equations with Damping BY WAN-TONG LI, CHENG-KUI ZHONG AND XIAN-LING FAN	927
Asymptotic Behavior and Oscillation of Delay Partial Difference Equations with Positive and Negative Coefficients BY SHU TANG LIU, BING GEN ZHANG AND GUANRONG CHEN	953
Surfaces of Constant Gauss Curvature in Lorentz-Minkowski Three-Space BY RAFAEL LÓPEZ	971
Inflection Points and Nonsingular Embeddings of Surfaces in \mathbf{R}^5 BY D.K.H. MOCHIDA, M.C. ROMERO-FUSTER AND M.A.S. RUAS	995

CONTENTS CONTINUED ON INSIDE BACK COVER

First-Countability, Sequentiality and Tightness of the Upper Kuratowski Convergence BY FRÉDÉRIC MYNARD	1011
Extremal Bounded Slit Mappings for Linear Functionals BY D.V. PROKHOROV.....	1039
On the Commutant of Multiplication Operators with Analytic Symbols BY B. KHANI ROBATI AND S.M. VAEZPOUR	1049
On Poincaré's Fourth and Fifth Examples of Limit Cycles at Infinity BY ROLAND K.W. ROEDER	1057
Oscillation and Nonoscillation Theorems for Fourth Order Difference Equations BY EWA SCHMEIDEL	1083
Some Remarks on Relative Tor and Regular Homomorphisms BY JOSÉ J.M. SOTO	1095
The Discriminant of a Cyclic Field of Odd Prime Degree BY BLAIR K. SPEARMAN AND KENNETH S. WILLIAMS	1101
Values of Lucas Sequences Modulo Primes BY ZHI-HONG SUN	1123
Entire Functions of Exponential Type and Uniqueness Conditions on Their Real Part BY RAPHAËLE SUPPER	1147
Global Attractivity in a Genotype Selection Model BY XIAN HUA TANG AND SUI SUN CHENG	1175