CONTENTS

RESEARCH PAPERS

Functions of Bounded Mean Oscillation .... Der-Chen Chang (張德健) and Cora Sadosky 573

Note on the Irrationality of Certain Multivariate $q$-Functions ........ Peter Bundschuh 603

(p,q,r)-Generations of the Sporadic Group $HN$ .................... Ali Reza Ashrafi 613

On Convergence of a Recursive Sequence $x_{n+1} = f(x_{n-1}, x_n)$ ......................................... Sin-Ei Takahasi, Yasuhide Miura and Takeshi Miura 631

The Abstract Gliding Hump Properties and Applications .................. Junde Wu, Jianwen Luo and Chengri Cui 639

On Convergent Rates of Ergodic Harris Chains Induced from Diffusions .................................. Feng-Rung Hu (胡豊榮) 651

Weighted Boundedness of Multilinear Operators for the Extreme Cases ................................ Liu Lanzhe (劉嵐喆) 669

Completely Continuous Subspaces of Operator Ideals ................................ S. M. Moshtaghioun and J. Zafarani 691

Inverses of Some New Inequalities Similar to Hilbert’s Inequalities .................................. Zhao Changjian (趙長建), Josip Pecarić and Leng Gangsong (冷崗松) 699

On Geometric and Topological Properties of the Classes of Hereditarily $l_n$ Banach Spaces .............................................. Parviz Azimi 713

Periodicity in Mutualism Systems with Impulse...Dan Ye (葉 丹) and Meng Fan (范 猛) 723

Distribution Cosine Functions ................................................. Marko Kostic 739

Regularity and Blow-Up Constants of Solutions for Nonlinear Differential Equation .................. Meng-Rong Li (李明熔) and Zing-Hung Lin 777

Some Fixed-Point Theorems on an Almost $G$-Convex Subset of a Locally $G$-Convex Space and Its Applications ........................ Chi-Ming Chen (陳啟銘) 797

The Behavior of the Interphase Heat-Transfer for the Fast-Igniting Catalytic Converter .............. Yu-Hsien Chang (張幼賢) and Guo-Chin Jau (趙國欽) 807

Taiwanese Journal of Mathematics is included in the list of SCI Journals beginning March 2004