



**Miskolc
Mathematical
Notes**

VOLUME 13 (2012), NUMBER 2

CONTENTS

| | |
|---|-----|
| N. K. Agbeko | |
| Stability of maximum preserving functional equations on Banach lattices | 187 |
| Rabİa Aktaş, Bayram Çekim, and Recep Şahi | |
| The matrix version for the multivariable Humbert polynomials | 197 |
| M. H. Al-Abbadi and M. Darus | |
| Differential subordination for a certain generalized operator | 209 |
| Yasemin Alagöz, Kürşat Hakan Oral, and Salim Yüce | |
| Split quaternion matrices | 223 |
| Mohammad W. Alomari, M. Emin Özdemir, and Havva Kavurmacı | |
| On companion of Ostrowski inequality for mappings whose first derivatives absolute value are convex with applications | 233 |
| M. A. Bilozerowa and V. M. Evtukhov | |
| Asymptotic representations of solutions of the differential equation $y^{(n)} = \alpha_0 p(t) \prod_{i=0}^{n-1} \varphi_i(y^{(i)})$ | 249 |
| Oana Bumbariu | |
| An acceleration technique for slowly convergent fixed point iterative methods | 271 |
| I. Chajda and H. Länger | |
| Ring-like algebras associated with symmetric difference | 283 |
| Wenchang Chu | |
| Two problems of George Andrews on generating functions for partitions | 293 |
| S. S. Dragomir | |
| Superadditivity of the Jensen integral inequality with applications | 303 |
| M. Eshaghi Gordji, H. Baghani, M. Ramezani, and H. Khodaei | |
| An extension of the Mizoguchi–Takahashi fixed point theorem | 317 |



**Miskolc
Mathematical
Notes**

VOLUME 13 (2012), NUMBER 2

CONTENTS

Attila Házy

- Bernstein-Doetsch type results for (k, h) -convex functions 325

Yuxia Hou, Xiaojing Feng, and Xuewei Cui

- Global Hölder estimates for hypoelliptic operators with drift on homogeneous groups 337

Maurizio Imbesi

- Projective dimension and symmetric algebra of graph ideals 349

Refik Keskin

- Parabolic class number of a subgroup of the normalizer of $\Gamma_0(m)$ 365

Refik Keskin, Olcay Karaath, and Zafer Şiar

- On the Diophantine equation $x^2 - kxy + y^2 + 2^n = 0$ 375

Emrah Kılıç

- A matrix approach for generalizing two curious divisibility properties 389

Emine Koç and Öznur Gölbaşı

- On rings of quotients of semiprime Γ -rings 397

Jianping Li and Bo Zhou

- On the modified Randić index of trees, unicyclic graphs and bicyclic graphs 415

Zhenbang Li and Changchun Liu

- On the blow-up of solutions for the unstable sixth order parabolic equation 429

M. Emin Özdemir, Alper Ekinci, and Ahmet Ocak Akdemir

- Generalizations of integral inequalities for functions whose second derivatives are convex and m -convex 441

A. Rontó and M. Rontó

- Periodic successive approximations and interval halving 459



**Miskolc
Mathematical
Notes**

VOLUME 13 (2012), NUMBER 2

CONTENTS

Miklós Rontó

- The Fifth International Workshop – 2012 “Constructive Methods For Non-Linear Boundary Value Problems” 483

İlkınur Sakaoglu and Mehmet Ünver

- Statistical approximation for multivariable integrable functions 485

Y. Shang

- A sharp threshold for rainbow connection in small-world networks 493

Anthony Sofo

- Harmonic numbers of order two 499

Gokhan Soydan

- On the Diophantine equation $x^2 + 7^\alpha \cdot 11^\beta = y^n$ 515

István Szalkai, György Dósa, Zsolt Tuza, and Balázs Szalkai

- On minimal solutions of systems of linear equations with applications 529

E. Tas and T. Yurdakadın

- Characterization of uniform statistical convergence for double sequences . . 543

Ioana Timiş

- Stability of Jungck-type iterative procedure for some contractive type mappings via implicit relations 555

Ergül Türkmen and Ali Pancar

- Characterizations of Rad-supplemented modules 569

Zafer Ünal, Mehmet Ali Özarslan, and Oktay Duman

- Approximation properties of real and complex Post-Widder operators based on q -integers 581