



***Miskolc
Mathematical
Notes***

VOLUME 15 (2014), NUMBER 2

CONTENTS

Bashir Ahmad and Sotiris K. Ntouyas

- A higher-order nonlocal three-point boundary value problem for sequential fractional differential equations 265

A. Amini-Harandi

- Fixed point theorems for some generalized nonexpansive mappings in Banach spaces 279

A. Armandnejad and M. Jamshidi

- Multiplicative isomorphisms at invertible matrices 287

K. Aydemir and O. Sh. Mukhtarov

- Completeness of one two-interval boundary value problem with transmission conditions 293

M. Azari and A. Iranmanesh

- The second edge-Wiener index of some composite graphs 305

Abdelmalek Azizi and Mohammed Talbi

- Galois group for some class field 317

Hüseyin Bor, Dansheng Yu, and Ping Zhou

- A new result on the quasi power increasing sequences 327

Sanda Bujačić

- Two divisors of $(n^2 + 1)/2$ summing up to $\delta n + \varepsilon$, for δ and ε even 333

Nursel Çetin, Sevilay Kirci Serenbay, and Çiğdem Atakut

- Approximation by a generalized Szász type operator for functions of two variables 345

Ivan Chajda and Miroslav Kolařík

- Variety of orthomodular posets 361



**Miskolc
Mathematical
Notes**

VOLUME 15 (2014), NUMBER 2

CONTENTS

Shun-Xuan Chen and Zhi-Qiang Zhu

- Practical stability of impulsive functional differential systems via analysis techniques 373

O. Yu. Dashkova

- Modules over group rings of locally soluble groups with a certain condition of minimality 383

Oktay Duman

- Nonlinear Bernstein-type operators providing a better error estimation 393

N. V. Dung

- Remarks on quasi-metric spaces 401

Hemen Dutta

- Some iterated convergence and fixed point theorems in real linear n -normed spaces 423

A. M. A. El-Sayed and E. O. Bin-Taher

- Nonlocal and integral conditions problems for a multi-term fractional-order differential equation 439

I. Fekete and I. Faragó

- N-stability of the θ -method for reaction-diffusion problems 447

Przemysław Górką and Anna Macios

- The Riesz-Kolmogorov theorem on metric spaces 459

Ismail Gök, O. Zeki Okuyucu, Nejat Ekmekci, and Yusuf Yaylı

- On Mannheim partner curves in three dimensional Lie groups 467

Xiangqian Guo, Fengdan Hou, and Xuewen Liu

- Natural density of relative coprime polynomials in $\mathbb{F}_q[x]$ 481



***Miskolc
Mathematical
Notes***

VOLUME 15 (2014), NUMBER 2

CONTENTS

Kostaq Hila and Jani Dine	
On Green's equivalences in Γ -groupoids	489
Adrian D. Indrea and Ovidiu T. Pop	
Some general Baskakov type operators	497
Levent Kargin and Veli Kurt	
On generalized Humbert matrix polynomials	509
Deniz Katar, Murat Olgun, and Cafer Coskun	
Principal functions of matrix Sturm–Liouville operators with boundary conditions dependent on the spectral parameter	525
Behrooz Khosravi, Behnam Khosravi, Bahman khosravi, and Zahra Momen	
Recognition by character degree graph and order of simple groups of order less than 6000	537
Emrah Kılıç	
A proof of a conjecture of Marques and Trojovsky	545
Emine Koç and Öznur Gölbaşı	
A note on (σ, τ) -derivations of rings with involution	559
Bülent Köklüce and Nesibe Tüfekçi	
Characterization of $V(\mathbb{Z}\mathbf{C}_n^+)$ of rank ≤ 4	571
Wenjun Liu	
New integral inequalities involving Beta function via P -convexity	585
Xiu Liu, Lan Shu, and Xiuyong Ding	
Diagonal common quadratic Lyapunov functions for sets of positive LTI systems	593



***Miskolc
Mathematical
Notes***

VOLUME 15 (2014), NUMBER 2

CONTENTS

M. Moussi

- Controllability of nonautonomous boundary integrodifferential Cauchy problems 603

M. Omidvari, S. M. Vaezpour, and R. Saadati

- Best proximity point theorems for F -contractive non-self mappings 615

Sevda Orhan, Fadime Dirik, and Kamil Demirci

- A Korovkin-type approximation theorem for double sequences of positive linear operators of two variables in statistical A -summability sense 625

M. Emin Özdemir, Mustafa Gürbüz, and Çetin Yıldız

- Inequalities for mappings whose second derivatives are quasi-convex or h -convex functions 635

Piotr Pokora

- Rank function equations and their solution sets 651

Feng Qi and Wen-Hui Li

- A unified proof of several inequalities and some new inequalities involving Neuman-Sándor mean 665

Mourad Rahmani

- Generalized Stirling transform 677

M. H. M. Rashid and A. Al-Omari

- Existence solution of neutral fractional differential inclusions with fractional operator 691

Abdolrahman Razani

- An existence theorem for an ordinary differential equation in Menger probabilistic metric space 711



***Miskolc
Mathematical
Notes***

VOLUME 15 (2014), NUMBER 2

CONTENTS

Nadeem ur Rehman and Mohd Arif Raza	
On ideals with Skew derivations of prime rings	717
Miklós Rontó and Yana Varha	
Constructive existence analysis of solutions of non-linear integral boundary value problems	725
Yongping Sun, Min Zhao, and Shuhong Li	
Monotone positive solution of nonlinear third-order two-point boundary value problem	743
Faramarz Tahamtani and Amir Peyravi	
General decay of solutions for a nonlinear viscoelastic wave equation with nonlocal boundary damping	753
Bahram Vakili and Jafar Azami	
Weakly Laskerian modules and weak cofiniteness	761
Isa Yildirim	
On convergence of an implicit algorithm for multivalued mappings in Banach spaces	771
Xiaopeng Zhao, Bo Liu, and Peng Zhang	
The Fourier spectral approximation for Kolmogorov-Spiegel-Sivashinsky equation	781