ISSN: 2160-0368 Vol. 4, No. 3, March 2014



Advances in Pure Mathematics

www.scirp.org/journal/apm



Journal Editorial Board

ISSN 2160-0368 (Print) ISSN 2160-0384 (Online)

http://www.scirp.org/journal/apm

Editor-in-Chief

Prof. De-Xing KongZhejiang University, China

Editorial Board

Prof. Constantin Buse

Dr. Taher S. H. AbdelmonemMansoura University, Egypt**Dr. Adel Ahmed Attiya**University of Mansoura, Egypt

Prof. Józef Banaś Bronislaw Markiewicz State School of Higher

Vocational Education in Jaroslaw, Poland West University of Timisoara, Romania

Prof. Sumit Chandok Punjab Technical University, India

Prof. Muhammad A. Chaudhry King Fahd University of Petroleum and Minerals, Saudi Arabia

Prof. Pantelis A. DamianouUniversity of Cyprus, CyprusProf. Leo DepuydtBrown University, USAProf. Dragan S. DjordjevicUniversity of Nis, SerbiaProf. Ahmed M. A. El-SayedAlexandria University, Egypt

Prof. Ahmed M. A. El-Sayed Alexandria University, Egypt Universidad del País Vasco, Spain

Prof. Cristescu Gabriela Aurel Vlaicu University of Arad, Romania

Prof. Hong-Ya Gao Hebei University, China

Prof. Aleksander Grytczuk University of Zielona Góra and Jan Pawel II Western, Poland

Prof. Yuxia Guo Tsinghua University, China

Prof. Sevdzhan HakkaevUniversity of Kansas, Lawrence, USADr. Chengchun HaoChinese Academy of Sciences, ChinaProf. Tian-Xiao HeIllinois Wesleyan University, USAProf. Wei HeNanjing Normal University, China

Prof. Ting-Zhu Huang University of Electronic Science & Technology of China, China

Prof. Shuichi Izumiya Hokkaido University, Japan
Prof. Toshitake Kohno The University of Tokyo, Japan
Prof. Vichian Laohakosol Kasetsart University, Thailand

Dr. Jingjing Ma
University of Houston-Clear Lake, USA
Prof. Elimhan N. Mahmudov
Istanbul Technical University, Turkey

Prof. Ming Mei McGill University, Canada

Prof. Rer. nat. Mara D. Neusel

Dr. Marek Niezgoda

Texas Tech University, USA
University of Life Sciences in Lublin, Poland

Dr. Jyotindra C. PrajapatiCharotar University of Science and Technology, India **Dr. Marius Rădulescu**Institute of Mathematical Statistics and Applied Mathematics "Gheorghe

Mihoc-Caius Iacob" of the Romanian Academy, Bucharest, Romania

Prof. Jingli RenZhengzhou University, ChinaProf. Bayram SahinInonu University, TurkeyDr. Samir H. SakerMansoura University, Egypt

Dr. Bessem Samet Tunis College of Sciences and Techniques, Tunisia

Prof. Yongli Song Tongji Universtiy, China

Prof. Yeong-Jeu Sun I-Shou University, Chinese Taipei

Dr. Néstor Thome Universidad Politécnica de Valencia, Spain

Prof. Aydin Tiryaki Izmir University, Turkey

Prof. Gabor TothEötvös Loránd University, HungaryDr. Amitabha TripathiIndian Institute of Technology, IndiaProf. Nodari VakhaniaGeorgian Academy of Sciences, MexicoProf. Jose C. ValverdeUniversity of Castilla-La Mancha, SpainProf. Mingxin WangHarbin Institute of Technology, China

Prof. Qing-Wen Wang Shanghai University, China

Dr. Yanjin Wang Institute of Applied Physics and Computational Mathematics, China

Dr. Jasang Yoon The University of Texas-Pan American, USA

Prof. Norio YoshidaUniversity of Toyama, JapanProf. Mohamed F. YousifThe Ohio State University, USADr. Shijun ZhengGeorgia Southern University, USAProf. Changjiang ZhuHuazhong Normal University, China



Table of Contents

volume 4	Number 3	March 2014
Filtered Ring D	Perived from Discrete Valuation Ring and Its Properties	
M. H. Anjom	Shoa, M. H. Hosseini	71
On the Full Tra	nsitivity of a Cotorsion Hull of the Pierce Group	
T. Kemoklidze	2	76
Fixed Point The	eorem for Maps Satisfying a General Contractive Condition of Integral Typ	e
Sumitra, S. M	anro	82
Heredity of Lo	wer Separation Axioms on Function Spaces	

Advances in Pure Mathematics (APM)

Journal Information

SUBSCRIPTIONS

The *Advances in Pure Mathematics* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:

Copyright © 2014 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY). http://creativecommons.org/licenses/by/4.0/

COPYRIGHT FOR INDIVIDUAL PAPERS OF THE JOURNAL:

Copyright © 2014 by author(s) and Scientific Research Publishing Inc.

REUSE RIGHTS FOR INDIVIDUAL PAPERS:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

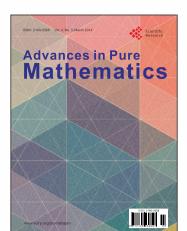
DISCLAIMER OF LIABILITY

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: apm@scirp.org



Advances in Pure Mathematics (APM)

ISSN 2160-0368 (Print) ISSN 2160-0384 (Online) http://www.scirp.org/journal/apm

Advances in Pure Mathematics (APM) is an international journal dedicated to the latest advancements in ordered algebraic structures. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of ordered algebraic structures.

Subject Coverage

This journal invites original research and review papers that address the following issues. Topics of interest include, but are not limited to:

- Applied Harmonic Analysis
- Approximation Theory
- Asymptotic Methods
- Bifurcation Theory
- Coding Theory
- Combinatorics
- Complex Analysis
- Convex Analysis
- Difference Equations
- Differential Equations
- Dynamical Systems
- Fixed-Point Theory
- Fourier Analysis
- Fractals
- Fractional Analysis

- Functional Differential Equations
- Fuzzy Mathematics
- Geometry
- Geometry of Banach Spaces
- Integral Equations
- Mathematical Biology, including Population Dynamics
- Mathematical Physics
- Matrix Theory
- Moment Theory
- Number Theory
- Numerical Analysis
- Operator Theory
- Optimal Control
- Optimization Wavelets

- Partial Differential Equations
- Probability
- Reaction-Diffusion Problems, Discrete Mathematics
- Scattering Theory
- Semigroups of Operators
- Signal Theory
- Special Functions
- Statistics
- Stochastic Process
- Topology and Applications
- Transport Theory
- Ultrametric Analysis
- Variational Methods

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the APM.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

E-mail: apm@scirp.org

Website and E-Mail

http://www.scirp.org/journal/apm