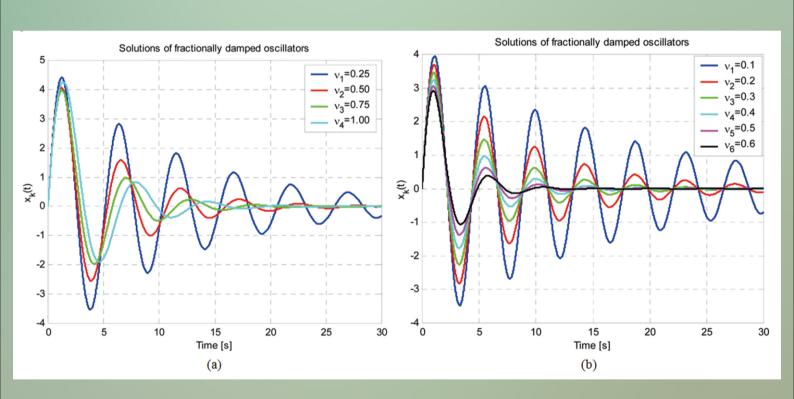
ISSN: 2160-0368 Vol. 4, No. 6, June 2014



Advances in Pure Mathematics





Journal Editorial Board

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

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

Editor-in-Chief

Prof. Dexing Kong Zhejiang University, China

Editorial Board

Dr. Taher S. H. Abdelmonem Mansoura University, Egypt Dr. Adel Ahmed Attiva University of Mansoura, Egypt

Prof. Józef Banas Bronislaw Markiewicz State School of Higher Vocational Education in Jaroslaw, Poland

Prof. Constantin Buse 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. Damianou University of Cyprus, Cyprus Prof. Leo Depuvdt Brown University, USA Prof. Dragan S. Djordjevic University of Nis, Serbia

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

Prof. Cristescu Gabriela Aurel Vlaicu University of Arad, Romania

Prof. Hongya Gao Hebei University, China

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

Tsinghua University, China Prof. Yuxia Guo

Prof. Sevdzhan Hakkaev University of Kansas, Lawrence, USA Dr. Chengchun Hao Chinese Academy of Sciences, China Prof. Tian-Xiao He Illinois Wesleyan University, USA Prof. Wei He Nanjing Normal University, China

Prof. Tingzhu Huang University of Electronic Science & Technology of China, China

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

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

McGill University and Champlain College Saint-Lambert, Canada Prof. Ming Mei

Prof. Rer. nat. Mara D. Neusel Texas Tech University, USA

Dr. Marek Niezgoda University of Life Sciences in Lublin, Poland Dr. Jyotindra C. Prajapati Charotar 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

Zhengzhou University, China

Prof. Jingli Ren Prof. Bayram Sahin Inonu University, Turkey Dr. Samir H. Saker Mansoura 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

Universidad Politécnica de Valencia, Spain Dr. Néstor Thome

Prof. Aydin Tiryaki Izmir University, Turkey

Eötvös Loránd University, Hungary Prof. Gabor Toth Dr. Amitabha Tripathi Indian Institute of Technology, India Prof. Nodari Vakhania Georgian Academy of Sciences, Mexico Prof. Jose C. Valverde University of Castilla-La Mancha, Spain

Prof. Qingwen Wang Shanghai University, China

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

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

Prof. Norio Yoshida University of Toyama, Japan The Ohio State University, USA Prof. Mohamed F. Yousif Dr. Shijun Zheng Georgia Southern University, USA Prof. Changjiang Zhu Huazhong Normal University, China



Table of Contents

| Volume 4 | Number 6 | lune 2014 |
|----------------|--|-----------|
| A New Integr | ral Equation for the Spheroidal Equations in Case of m Equal to 1 | |
| G. H. Tian, S | S. Q. Zhong | 229 |
| A Solution of | Generalized Cosine Equation in Hilbert's Fourth Problem | |
| R. Aramyan | 1 | 234 |
| A Note on the | e Height of Transitive Depth-One Graded Lie Algebras Generated by Their Local Pa | arts |
| T. B. Grego | ory | 242 |
| _ | Theorem of Hybrid Iterative Algorithm for Equilibrium Problems and Fixed ms of Finite Families of Uniformly Asymptotically Nonexpansive Semigroups | |
| H. B. Liu, Y. | Li | 244 |
| Derived Cate | gories in Langlands Geometrical Ramifications: Approaching by Penrose Transform | ns |
| F. Bulnes | | 253 |
| Structure of C | Groups with Generalized Normal Subgroups | |
| M. Arshadu | ızzaman | 261 |
| Time-Domain | n Analysis of the Periodically Discontinuously Forced Fractional Oscillators | |
| Z. Trzaska | | 269 |
| Existence and | d Uniqueness of Positive Solution for Third-Order Three-Point Boundary Value Pro | blems |
| T. C. Hu, Y. | P. Sun | 282 |
| On a Class of | Gronwall-Bellman Type Inequalities | |
| Z. A. Khan | | 289 |
| On Some Pro | pperties of Digital Roots | |
| I. M. Izmirli | | 295 |

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.

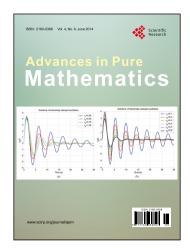
DISCLAIMER OF LIABILITY

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

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- · Guaranteed targeted, multidisciplinary audience





Website: http://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org