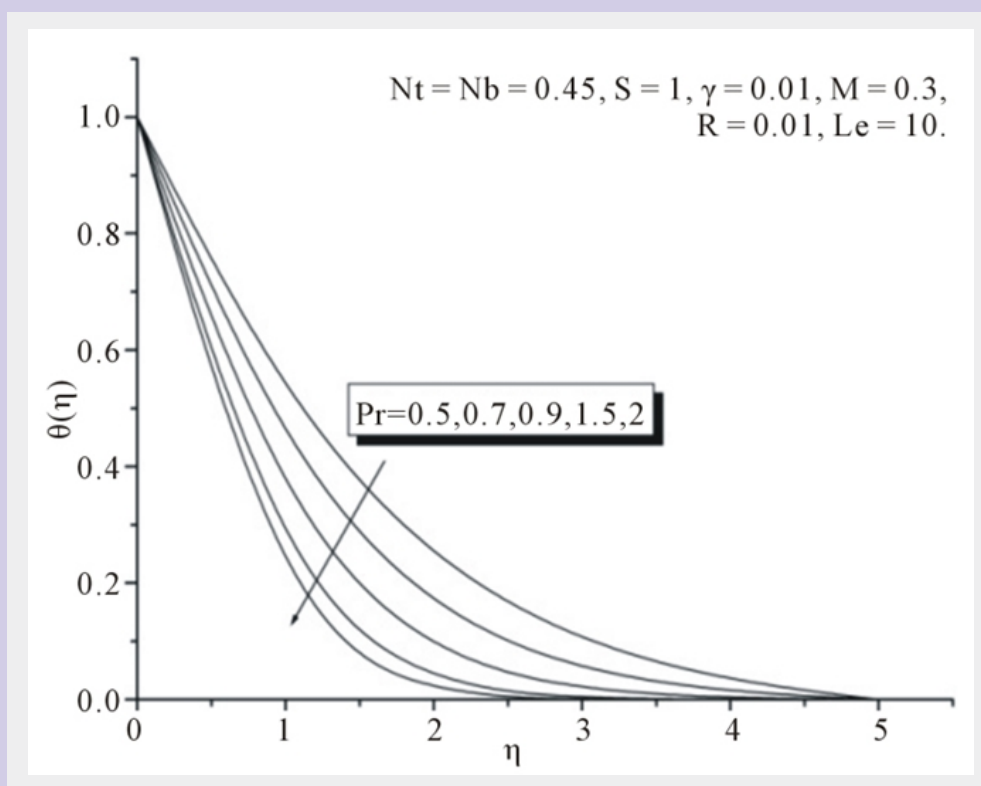


Journal of Applied Mathematics and Physics



ISSN: 2327-4352



Journal Editorial Board

ISSN Print: 2327-4352 ISSN Online: 2327-4379
<http://www.scirp.org/journal/jamp>

Editor-in-Chief

Prof. Wen-Xiu Ma

University of South Florida, USA

Editorial Board

Dr. Izhar Ahmad

King Fahd University of Petroleum and Minerals, Saudi Arabia

Dr. S. Joseph Antony

University of Leeds, UK

Prof. Roberto Oscar Aquilano

Instituto de Física Rosario, IFIR (CONICET-UNR), Argentina

Prof. Ping-Hei Chen

National Taiwan University, Chinese Taipei

Prof. Wanyang Dai

Nanjing University, China

Prof. Beih El-Sayed El-Desouky

Mansoura University, Egypt

Prof. Chaudry Masood Khalique

North-West University, South Africa

Dr. Ki Young Kim

Samsung Advanced Institute of Technology, South Korea

Prof. Xiang Li

Beijing University of Chemical Technology, China

Dr. Jafar Fawzi Mansi AlOmari

Al-Balqa' Applied University, Jordan

Prof. Rosa Pardo

Complutense University of Madrid, Spain

Prof. Sanzheng Qiao

McMaster University, Canada

Dr. Daniele Ritelli

University of Bologna, Italy

Dr. Babak Daneshvar Rouyendegh

Atilim University, Turkey

Prof. Nickolas S. Sapidis

University of Western Macedonia, Greece

Prof. Morteza Seddighin

Indiana University East, USA

Dr. Marco Spadini

University of Florence, Italy

Dr. Divine Tito Fongha Wanduku

Keiser University, USA

Prof. Ping Wang

Penn State University Schuylkill., USA

TABLE OF CONTENTS

Volume 2 Number 2

January 2014

Schrödinger Operators on Graphs and Branched Manifolds

M. H. N. Elsheikh.....1

Determination of an Unknown Source in the Heat Equation by the Method of Tikhonov Regularization in Hilbert Scales

Z. Y. Zhao, O. Xie, Z. H. Meng, L. You.....10

Necessity of Oversampling Theorem for Affine Frames

Q. Q. Fang, X. L. Shi, W. C. Li.....18

Influence of Chemical Reaction and Thermal Radiation on MHD Boundary Layer Flow and Heat Transfer of a Nanofluid over an Exponentially Stretching Sheet

N. G. Rudraswamy, B. J. Gireesha.....24

Method of Lines for Third Order Partial Differential Equations

M. Kudu, I. Amirali.....33

The figure on the front cover is from the article published in *Journal of Applied Mathematics and Physics*, 2014, Vol. 2, No. 2, pp. 24-32 by N. G. Rudraswamy and B. J. Gireesha.

Journal of Applied Mathematics and Physics (JAMP)

Journal Information

SUBSCRIPTIONS

The *Journal of Applied Mathematics and Physics* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$39 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©2014 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

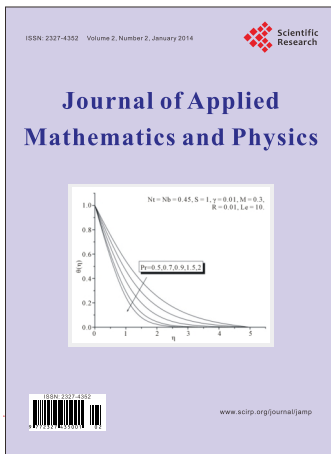
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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: jamp@scirp.org



Journal of Applied Mathematics and Physics

ISSN Print: 2327-4352 ISSN Online: 2327-4379
<http://www.scirp.org/journal/jamp>

Journal of Applied Mathematics and Physics is an international journal dedicated to the latest advancement of applied mathematics and physics. The goal of this journal is to provide a platform for researchers and scientists all over the world to promote, share, and discuss various new issues and developments in different areas of applied mathematics and physics. We aim to publish high quality research articles in terms of originality, depth and relevance of content, and particularly welcome contributions of interdisciplinary research on applied mathematics, physics and engineering.

Subject Coverage

The journal publishes original papers including but not limited to the following fields:

- Applications of Systems
- Applied Mathematics
- Applied Non-Linear Physics
- Applied Optics
- Applied Solid State Physics
- Biophysics
- Computational Physics
- Condensed Matter Physics
- Control Theory
- Cryptography
- Differentiable Dynamical Systems
- Engineering and Industrial Physics
- Experimental Mathematics
- Fluid Mechanics
- Fuzzy Optimization
- Geophysics
- Integrable Systems
- Laser Physics
- Methodological Advances
- Multi-Objective Optimization
- Nanoscale Physics
- Nonlinear Partial Differential Equations
- Non-Linear Physics
- Nuclear Physics
- Numerical Computation
- Optical Physics
- Portfolio Selection
- Riemannian Manifolds
- Scientific Computing
- Set-Valued Analysis
- Soliton Theory
- Space Physics
- Symbolic Computation
- Topological Dynamic Systems
- Variational Inequality
- Vector Optimization

We are also interested in: 1) Short reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book reviews—Comments and critiques.

Notes for Intending Authors

The journal publishes the highest quality original full articles, communications, notes, reviews, special issues and books, covering both the experimental and theoretical aspects including but not limited to the above materials, techniques and studies. Papers are acceptable provided they report important findings, novel insights or useful techniques within the scope of the journal. All manuscript must be prepared in English, and are subjected to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by prints in hard copy.

Website and E-Mail

<http://www.scirp.org/journal/jamp> E-mail: jamp@scirp.org

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, by delivering superior scientific publications and scientific information solution provider that enable advancement in scientific research.

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, world-wide, 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