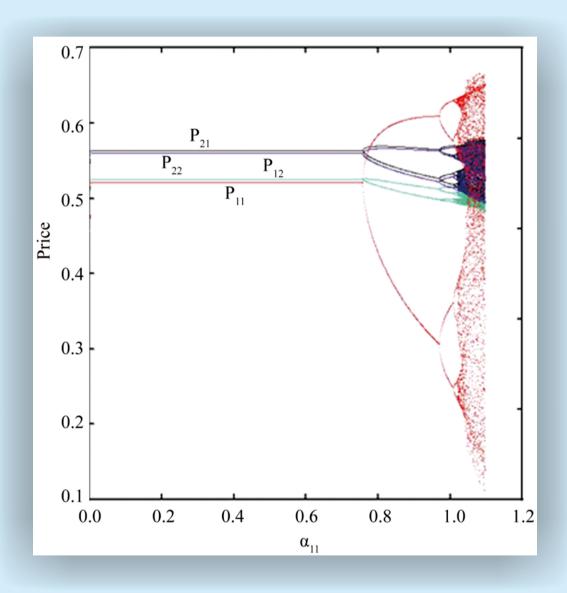


Applied Mathematics





Journal Editorial Board

ISSN Print: 2152-7385 ISSN Online: 2152-7393

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

......

Editor-in-Chief

Prof. Chris Cannings University of Sheffield, UK

Editorial Board (According to Alphabet)

Prof. Leva A. Beklaryan Russian Academy of Sciences, Russia

Dr. Aziz Belmiloudi Institut National des Sciences Appliquees de Rennes, France

Prof. Mark Broom City University, UK

Prof. Amares ChattopadhyayIndian School of Mines, IndiaDr. Badong ChenTsinghua University, ChinaProf. Jose Alberto CuminatoUniversity of Sao Paulo, SpainProf. Konstantin DyakonovUniversity of Barcelona, SpainDr. David GreenhalghUniversity of Strathclyde, UK

Prof. Zhiqing Han Dalian University of Technology, China

Prof. Yurii G. Ignatyev Kazan State University, Russia

Prof. Palle Jorgensen University of Iowa, USA

Prof. Kil Hyun Kwon Korea Advanced Institute of Science and Technology, Korea (South)

Prof. Hong-Jian LaiWest Virginia University, USADr. Goran LesajaGeorgia Southern University, USAProf. Tao LuoGeorgetown University, USA

Prof. Agassi Melikov National Aviation Academy, Azerbaijan

Prof. María A. NavascuésUniversity of Zaragoza, SpainDr. Donatus C. D. OguamanamRyerson University, Canada

Prof. Alexander S. Rabinowitch Moscow State University, Russia

Dr. Epaminondas Sidiropoulos Aristotle University of Thessaloniki, Greece

Prof. Sergei Silvestrov Mälardalen University, Sweden

Prof. Jacob Sturm

Rutgers University, USA

Dr. Zheng Su

Genentech Inc., USA

Prof. Mikhail Sumin Nizhnii Novgorod State University, Russia

Dr. Chengbo Wang Zhejiang University, China

Dr. Yi-Rong Zhu Research Scientist at Elder Research, Inc., USA

Editorial Assistant

Tian Huang Scientific Research Publishing, USA

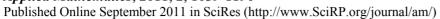


TABLE OF CONTENTS

Volume 2	Number 9	September 2011
Numerical So	olutions of a Class of Second Order Boundary Valu	e Problems on Using Bernoulli Polynomials
Md. S. Islam,	A. Shirin.	1059
Positive Solut Infinity in R	tions to the Nonhomogenous <i>p</i> -Laplacian Problem	with Nonlinearity Asymptotic to u^{p-1} at
L. Wang		1068
	olution of Mean-Square Approximation Problem of Double Fourier Integral	f Real Nonnegative Function by the
P. Savenko, M	M. Tkach	1076
Application of Diffusion Equ	f He's Variational Iteration Method for the Analytuation	tical Solution of Space Fractional
M. Safari		1091
Expanding th	e Tanh-Function Method for Solving Nonlinear Ed	quations
N. H. Abdel-	-All, M. AA. Abdel-Razek, AA. K. Seddeek	1096
A Strong Met	thod for Solving Systems of Integro-Differential Eq	quations
J. Biazar, H. I	Ebrahimi	1105
New Common	Fixed Point Results for Four Maps on Cone Metric	Spaces
Y. Han, S. Y.	. Xu	1114
A New Descei	nt Nonlinear Conjugate Gradient Method for Unco	onstrained Optimization
H. Fan, Z. B. Z	Zhu, A. W. Zhou.	1119
On the Growt	th and Polynomial Coefficients of Entire Series	
H. H. Khan,	R. Ali	1124
Reflection of I	Plane Waves from a Free Surface of an Initially St	ressed Transversely Isotropic Dissipative
B. Singh, J. A	Arora	
Quenching Ra	ate for the Porous Medium Equation with a Singul	ar Boundary Condition
Z. C. Zhang,	Y. Y. Li	1134

Copyright © 2011 SciRes.

Applied Mathematics, 2011, 2, 1059-1190





Analytical Solutions of System of Non-Linear Differential Equations in the Single-Enzyme, Single-Reaction with Non-Mechanism-Based Enzyme Inactivation	-Substrate
G. Varadharajan, L. Rajendran.	1140
Persistence in Non-Autonomous Lotka-Volterra System with Predator-Prey Ratio-Dependence Density Dependence	ce and
H. Y. Li	1148
Estimation in Interacting Diffusions: Continuous and Discrete Sampling	
J. P. N. Bishwal.	1154
Analysis of DAR(1)/D/s Queue with Quasi-Negative Binomial-II as Marginal Distribution	
K. K. Jose, B. Abraham.	1159
Adaptive Control of a Production-Inventory Model with Uncertain Deterioration Rate	
F. Bukhari	1170
A Precise Asymptotic Behaviour of the Large Deviation Probabilities for Weighted Sums	
G. Divanji, K. Vidyalaxmi.	1175
Multi-Team Bertrand Game with Heterogeneous Players	
M. F. Elettreby, D. S. Mashat, A. M. Zenkour	1182

Copyright © 2011 SciRes.

The figure on the front cover is from the article published in Applied Mathematics, 2011, Vol. 2, No. 9, pp. 1182-1190 by Mohammed Fathy Elettreby, *et al.*

Applied Mathematics (AM)

Journal Information

SUBSCRIPTIONS

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

Subscription rates:

Print: \$59 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©2011 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.

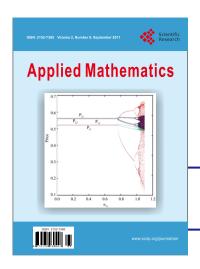
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 assumes 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: am@scirp.org



Applied Mathematics (AM)

ISSN Print: 2152-7385 ISSN Online: 2152-7393

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

Applied Mathematics (AM) is an international journal dedicated to the latest advancement of applied mathematics. 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.

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 Probability
- Applied Statistics
- **Approximation Theory**
- Chaos Theory
- Combinatorics
- Complexity Theory
- Computability Theory
- Computational Methods in Mechanics and Physics

 Mathematical Biology
- Continuum Mechanics
- Control Theory
- Cryptography
- Discrete Geometry
- Dynamical Systems
- Elastodynamics

- Evolutionary Computation
- Financial Mathematics
- Fuzzy Logic
- Game Theory
- Graph Theory
- Information Theory
- Inverse Problems
- Mathematical Chemistry
- Mathematical Economics
- Mathematical Physics
- Mathematical Psychology
- Mathematical Sociology
- Matrix Computations

- Neural Networks
- Nonlinear Processes in Physics
- Numerical Analysis
- Operations Research
- Optimal Control
- Optimization
- **Ordinary Differential Equations**
- Partial Differential Equations
- **Probability Theory**
- Statistical Finance
- Stochastic Processes
- Theoretical Statistics

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 Applied Mathematics.

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: am@scirp.org

Website and E-Mail

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