

TABLE OF CONTENTS

Volume 2 Number 12

December 2011

The Physical Transient Spectrum for a Multi-Photon V-Type Three-Level Atom Interacting with a Squeezed Coherent Field in the Presence of Nonlinearities

F. K. Faramawy, A. A. Eied.....1425

Approximate Analytical Solutions for the Nonlinear Brinkman-Forchheimer-Extended Darcy Flow Model

B. K. Jha, M. L. Kaurangini.....1432

On p and q -Horn's Matrix Function of Two Complex Variables

A. Shehata.....1437

Inverse Eigenvalue Problem for Generalized Arrow-Like Matrices

Z. B. Li, C. Bu, H. Wang.....1443

Extension of Range of MINRES-CN Algorithm

M. G. Kamalvand.....1446

Degree of Approximation of Conjugate of Signals (Functions) by Lower Triangular Matrix Operator

V. N. Mishra, H. H. Khan, K. Khatri.....1448

Propagation of Torsional Surface Waves under the Effect of Irregularity and Initial Stress

S. Gupta, D. K. Majhi, S. K. Vishwakarma, S. Kundu.....1453

On the Behavior of Combination High-Order Compact Approximations with Preconditioned Methods in the Diffusion-Convection Equation

A. Golbabai, M. Molavi-Arabshahi.....1462

The Analytical and Numerical Solutions of Differential Equations Describing of an Inclined Cable Subjected to External and Parametric Excitation Forces

M. S. Abd Elkader.....1469

Numerical Solution of Nonlinear Klein-Gordon Equation Using Lattice Boltzmann Method

Q. J. Li, Z. Ji, Z. S. Zheng, H. J. Liu.....1479

Controllability of Neutral Impulsive Differential Inclusions with Non-Local Conditions

D. N. Chalishajar, F. S. Acharya.....1486

Precision of a Parabolic Optimum Calculated from Noisy Biological Data, and Implications for Quantitative Optimization of Biventricular Pacemakers (Cardiac Resynchronization Therapy)	
D. P. Francis.....	1497
Pattern Formation in Tri-Trophic Ratio-Dependent Food Chain Model	
D. Melese, S. Gakkhar.....	1507
On Solutions of Generalized Bacterial Chemotaxis Model in a Semi-Solid Medium	
A. M. A. El-Sayed, S. Z. Rida, A. A. M. Arafa.....	1515
Special Lattice of Rough Algebras	
Y. H. Liu.....	1522
On Signed Product Cordial Labeling	
J. B. Babujee, S. Loganathan.....	1525
Cryptographic PRNG Based on Combination of LFSR and Chaotic Logistic Map	
H. Rahimov, M. Babaei, M. Farhadi.....	1531
An Efficient Combinatorial-Probabilistic Dual-Fusion Modification of Bernstein's Polynomial Approximation Operator	
S. A. Wahid.....	1535
Minimax Multivariate Control Chart Using a Polynomial Function	
J. A. Adewara, K. S. Adekeye, O. E. Asiribo, S. B. Adejuyigbe.....	1539
Test of Generating Function and Estimation of Equivalent Radius in Some Weapon Systems and Its Stochastic Simulation	
F. M. Zheng.....	1546

The figure on the front cover is from the article published in *Applied Mathematics*, 2011, Vol. 2, No. 12, pp. 1507-1514, by Dawit Melese and Sunita Gakkhar.