

# Table of Contents

**Volume 6 Number 5**
**May 2018**
**Solitary Wave Solutions and Rational Solutions for Modified Zakharov-Kuznetsov Equation with Initial Value Problem**

- Z. Z. Dong, L. Wang..... 949

**On the Solution of One-Dimensional Ising Models**

- Yu. N. Kharchenko..... 960

**A Local Meshless Method for Two Classes of Parabolic Inverse Problems**

- W. Liu, B. Y. Wang..... 968

**Gödel Is Right: There Is No Quantum Gravity**

- R. L. Huston..... 979

**Quantum Measurements Generating Structures of Numerical Events**

- D. Dorninger, H. Länger..... 982

**Mathematical Modeling of Shock Waves in Inhomogeneous Viscoelastic Two-Component Media**

- V. Polenov, A. Chigarev..... 997

**The Qualitative Analysis for a Class Nonlinear Systems with High Degree**

- S. L. Chen, Y. J. Du..... 1006

**On a Generalization of Einstein's  $E = mc^2$** 

- T. S. Santhanam..... 1012

**Alternating Segment Explicit-Implicit and Implicit-Explicit Parallel Difference Method for Time Fractional Sub-Diffusion Equation**

- L. F. Wu, Y. D. Zhao, X. Z. Yang..... 1017

**Absolute Velocity and Total Stellar Aberration**

- M. Čojanović..... 1034

**The Inertial Manifolds for a Class of Higher-Order Coupled Kirchhoff-Type Equations**

- G. G. Lin, S. M. Yang..... 1055

**Induced Electromagnetic Fields Estimation in Spine Examinations of MRI Patients: A Re-Evaluation of Existing Clinical Protocols at a Hospital in Accra, Ghana**

- F. Acheampong, T. Dery, R. Appiah, D. A. Abaye..... 1065

**On Monotone Eigenvectors of a Max- $T$ Fuzzy Matrix**

Q. Wang, N. Qin, Z. X. Yang, L. F. Sun, L. J. Peng, Z. D. Wang.....1076

**Acoustic Based Crosshole Full Waveform Slowness Inversion in the Time Domain**

W. S. Zhang, A. K. Joardar.....1086

**Solution of Stochastic Quadratic Programming with Imperfect Probability Distribution Using Nelder-Mead Simplex Method**

X. S. Ma, X. Liu.....1111

**Effect of Time Delay and Antibodies on HCV Dynamics with Cure Rate and Two Routes of Infection**

A. M. Elaiw, S. A. Ghaleb, A. Hobiny.....1120