

Table of Contents

Volume 8 Number 11

November 2020

Effect of Initial Stress on a Thermoelastic Functionally Graded Material with Energy Dissipation

W. M. Hasona, M. M. Adel.....2345

The Whole Theory of This Universe—A Step Forward to Einstein

R. Kousar.....2356

An Amati-Like Correlation for Short Gamma-Ray Bursts

W. J. Azzam, F. S. Jaber, A. Naeem.....2371

Necessary and Sufficient Conditions for the Separability and the R-Separability of the Irrotational Stokes Equation and Applications

E. Protopapas, M. Hadjinicolaou.....2379

Simulations of Heterojunction and Tandem Solar Cells Based on 3C Silicon Carbide

K. Moyème, L. Yendoubé, O. Laurent, P. Marcel, T. Moussa.....2402

Quantum Theory of the Wannier Phenomenon

H. Klar.....2416

Functional Brain Network Learning Based on Spatial Similarity for Brain Disorders Identification

L. Sun, T. T. Guo.....2427

Numerical Simulation for Fredholm Integral Equation of the Second Kind

P. Guo.....2438

The Impact of Climate Change on Country's Fragility Assessment

M. M. Li, D. S. Bi, D. F. Yang.....2447

Systematic Approach to Compute the Vibrational Energy Levels of Diatomic Molecules

M. J. Idrissi, A. Fedoul, S. Sayouri.....2463

Quantum Light and Coherent States in Conducting Media

I. A. Pedrosa.....2475

The Hydrodynamic Limit of Nonlinear Fokker-Planck Equation

Y. A. Ren, L. J. Yu, J. Liao.....2488

Compliance Modeling of a Compliant Stage with Symmetric Configuration	
Y. S. Du, G. H. Gao.....	2500
An Enhanced Steepest Descent Method for Global Optimization-Based Mesh Smoothing	
K. Zhao, Y. B. Ma, Y. Wang, X. Yin, Y. F. Guo.....	2509
Numerical Analysis of Different Nose Shapes on the Train Aerodynamic Performance at a Windbreak Transition under Crosswinds	
Z. W. Chen, T. H. Liu, W. H. Li.....	2519
A Computational Study of Interaction of Main Channel and Floodplain: Open Channel Flows	
P. K. Singh, X. N. Tang, H. Rahimi.....	2526
Simulation Platform of Multi-Pulse Photoacoustic Microscopy Based on K-Space Pseudospectral Method	
X. L. Song, J. S. Wei, J. M. Xiong, L. F. Song.....	2540
Verifying a Finite Element Analysis Methodology with Reinforced Concrete Beam Experiments	
N. Revanna, C. K. S. Moy, T. Krevaiakas.....	2549
Investigating the Thermal Stress of Millisecond Pulsed Laser Irradiation on Charge-Coupled Devices	
C. X. Jiang, Y. Tan, B. Peng, G. Y. Jin, H. X. Cai, Z. Lv.....	2557
Quantum Interferometry for Different Energy Landscapes in a Tuneable Josephson Junction Circuit	
P. Nguenang, M. N. Jipdi, P. Louodop, M. Tchoffo, L. C. Fai, H. A. Cerdeira.....	2569
Building Wave Functions of the Outer Electron for Alkaline Atoms Theory and Wave Functions Representation	
A. de Kertanguy.....	2601
A Model for the Transmission of Covid-19 in a Mass Gathering	
M. Cavani.....	2613
Analysis of a Stochastic Ratio-Dependent Predator-Prey System with Markovian Switching and Lévy Jumps	
X. G. Zhang, Y. F. Shao, T. L. Zhang.....	2632
Revival of Order in the Chaotic Dynamics with Position and Time Dependent Perturbed System	
L. S. Y. Tchapda, M. Tchoffo, M. Vubangsi, F. B. Migueu, L. C. Fai.....	2658

Adaptive Threshold Estimation of Open Set Voiceprint Recognition Based on OTSU and Deep Learning

X. D. Li, X. J. Yang, L. H. Zhou.....2671

The Traveling Wave Solutions of Space-Time Fractional Partial Differential Equations by Modified Kudryashov Method

Md. M. Rahman, U. Habiba, Md. A. Salam, M. Datta.....2683

Randomized Constraint Limit Linear Programming in Risk Management

D. Ridley, A. Khan.....2691