

Table of Contents

Volume 8 Number 3

March 2020

Generalized Anticipation Effect Models for Traffic Flow

L. H. Zhu.....367

Asymptotic Solution to Scattering Problem on a Set of Small Particles and Application to Creating the Materials with a Peculiar Refractive Index

M. I. Andriychuk.....375

A Revised Interpretation of the Thermodynamic Theory Including the Einstein Mass-Energy Relation $E = mc^2$

J.-L. Tane.....392

Chaos Synchronization in Discrete-Time Dynamical Systems with Application in Population Dynamics

T. Azizi, G. Kerr.....406

A Review of Water Quality Optimisation Models and Techniques

D. K. Boah, S. B. Twum.....424

Investigation of the Surface Brightness Model in the Milky Way via Homotopy Perturbation Method

A. A. Alatawi, M. Aljoufi, F. M. Alharbi, A. Ebaid.....434

Bosonization Approach and Novel Traveling Wave Solutions of the Superfield Gardner Equation

S. T. Wang, H. G. Yu, C. J. Dai, M. Zhao.....443

The Planck Constant Was Not a Universal Constant

K. Suto.....456

Local Existence and Uniqueness Theorem for a Nonlinear Schrödinger Equation with Robin Inhomogeneous Boundary Condition

C. Bu.....464

The Numerical Solutions of Systems of Nonlinear Integral Equations with the Spline Functions

X. Y. Liu, Y. R. Pan.....470

Stability and Approximate Analytical Periodic Solution of a Structurally Orthotropic Stringer Shell

X. Liu, R. F. Wang, F. B. Gao.....481

Configuration Mixing in Pt Nuclei within Interacting Boson Model-2

M. A. H. Muhi, S. N. Abood.....492

Linear Stability and Nonlinear Analysis of an Extended Optimal Velocity Model Considering the Speed Limit

G. Z. He, C. C. Hua.....507

Fekete-Szegö Estimate for a Class of Starlike Functions Involving Certain Analytic Multiplier Transform

D. O. Makinde, A. S. Oyekunle, T. O. Opoola.....519

The Dynamical Behavior of a Certain Predator-Prey System with Holling Type II Functional Response

S. T. Wang, H. G. Yu, C. J. Dai, M. Zhao.....527

Imaginary Whittaker Modules of the Twisted Affine Nappi-Witten Lie Algebra $\widetilde{nw}[\theta]$

X. Chen.....548

Research on Energy Saving of Charging Based on Mathematical Modeling

Z. Y. Cai, W. J. Li, W. X. Xu, Z. H. Zhao.....555