

Table of Contents

Volume 9 Number 6

June 2021

Application of the Method of Non-Classical Approach to Certain Problems of the Theory of Anisotropic Space Plazma in Fluid Description

M. A. Nurmammadov, N. S. Dzhalilov.....1181

Gravitation Theory Based on the Physics of an Absolute Reference System

K. Patrinos.....1194

Simple Mitigation Strategy for a Systematic Gate Error in IBMQ

D. Bultrini, M. H. Gordon, E. López, G. Sierra.....1215

The Quantum Condition That Should Have Been Assumed by Bohr When Deriving the Energy Levels of a Hydrogen Atom

K. Suto.....1230

First Principles Calculation of Magnetic Resonance Properties of Cu_{2-δ}X (X = Se, S, Te)

Z. P. Shao, C. L. Shi.....1245

Improved Grid Relaxation with Zero-Order Integrators

J. Mueller, H.-G. Matuttis.....1257

A Generalization of Eneström-Kakeya Theorem and a Zero Free Region of a Polynomial

M. A. Shah, R. Swroop, H. M. Sofi, I. Nisar.....1271

Numerical Approximation of Port-Hamiltonian Systems for Hyperbolic or Parabolic PDEs with Boundary Control

A. Brugnoli, G. Haine, A. Serhani, X. Vasseur.....1278

The Observable Universe in a Simplified Cosmic Dynamic Model

X. Y. Li, L. B. S. Genzon, S. Longzhou, Y. P. Dai, Y. S. Xu.....1322

Non-Maxwellian Kinetic Modelling of City Size Distribution

L. J. Yu, J. Liao.....1329

On the Gravitational Waves of the Planets Closest to the Earth and Experimental Possible of Its Measurement

V. Nastasenko.....1340

Numerical Method for Non-Linear Conservation Laws: Inviscid Burgers Equation

R. Hemel, M. T. Azam, M. S. Alam.....1351

**Thermodynamic Consistency and Thermomechanical Dynamics (TMD) for Nonequilibrium
Irreversible Mechanism of Heat Engines**

H. Uechi, L. Uechi, S. T. Uechi.....1364

**The Structure of Essential Spectra and Discrete Spectrum of Three-Electron Systems in the
Impurity Hubbard Model—Quartet State**

S. M. Tashpulatov.....1391