

Table of Contents

Volume 7 Number 9

September 2019

**A Unified Algebraic Technique for Eigenvalues and Eigenvectors
in Quaternionic and Split Quaternionic Mechanics**

Z. W. Guo, G. Wang, D. Zhang, T. S. Jiang.....1929

**Leonardo da Vinci's *The Last Supper*: Reconstruction of the Room
Using Reverse Geometric Perspective Processes**

N. Kourniatis, N. T. U. A. Architect.....1941

Criteria for Weighted Moving-Mean Method

S. Jiang, J. L. Wang.....1958

**The Classical Hall Effect in Multiply-Connected Plane Regions Part I:
Topologies with Stream Function**

U. Ausserlechner.....1968

Momentum Distribution Functions in Quark-Gluon Plasma

V. Filinov, A. Larkin.....1997

Quenching Phenomena Due to a Concentrated Nonlinear Source in an Infinitely Long Cylinder

P. T. Marion.....2015

A Note on the Perturbation of MF Algebras and Quasidiagonal C^* -Algebras

W. J. Zhan, L. G. Wang.....2026

The $LA = U$ Decomposition Method for Solving Systems of Linear Equations

A. T. Tiruneh, T. Y. Debessai, G. C. Bwembya, S. J. Nkambule.....2031

**Derivation of Maxwell's Equations via the Covariance Requirements of the
Special Theory of Relativity, Starting with Newton's Laws**

A. D. Pierce.....2052

**Proposal to Study Uniqueness Problem of Rayleigh Wave in Half-Space
Kelvin Viscoelastic Media**

H. Cheng, T. Takiguchi.....2074

**Asymptotic Stability of Combination of Contact Discontinuity with Rarefaction Waves
for the One-Dimensional Viscous Micropolar Fluid Model**

L. S. Peng.....2089

Mode-Dependent Finite-Time H_∞ Filtering for Stochastic Nonlinear Systems with Markovian Switching

A. Q. Zhang.....2112

Nonstationary Stimulated Raman Scattering by Polaritons in Cubic Crystals

V. Feshchenko, G. Feshchenko.....2122

A Molecular Dynamics Approach for Optimizing Beam Intensities in IMPT Treatment Planning

L. Liao, G. J. Lim, X. D. Zhang.....2130

Approximate Solution Method of the Seventh Order KdV Equations by Decomposition Method

N. A. Alzaid, B. A. Alrayiqi.....2148