

## **TABLE OF CONTENT**

Vol. 15, 2023

	Page
The Energy and The Maximum Degree Energy of The Cayley Graph Associated to The Alternating Group of Order 12 With Subsets of Order One Ahmad Farhan Rooh Azzam, Nor Haniza Sarmin	1-7
Covariance Matrix Method in Principal Component Analysis Kathirvelu Amelia Sneha, Wan Heng Fong	8-15
A Novel Hybrid Fibonacci Retracement – Elliott Wave of Computational Intelligence for Forecasting Major Foreign Exchange Market Bavatarani Maganathan, Norma Alias	16-25
Rate of Gold Growth and Thermal Distribution Profile on Printed Circuit Board and Full Chip System Cheong Kai Zen, Norma Alias	26-33
Study on Application of Automatic Differentiation Desmond Lee Ching Yiing, Yeak Su Hoe	34-44
Solving Heat Equation by using Finite Element Method Fatanah Hamzah, Muhamad Najib Zakaria	45-55
<b>Determination Of Hamiltonian Polygonal Paths of Assembly Graph for </b> $FTTM_6$ <b> Using </b> $\Omega$ <b> - Algebra</b> Goh Chai Ying, Tahir Ahmad	56-65
Study on Application of Logarithmic Barrier Method in Optimization Problem Hazwanie Hussin, Yeak Su Hoe	66-76

Application of Fast Multipole Method in Potential Calculations Johann Zukifle, Yeak Su Hoe	77-84
The Significance Of The Temperature Jump On Steady MHD Free Convection Viscous Dissipating Fluid Past A Vertical Plate With Dufour And Soret Effects In Porous Medium Khairunnisa, Lim Yeou Jiann	85-98
Numerical Solution of Korteweg De-Vries Equation Using Method Of Lines Muhammad Ariff Azman, Shazirawati Mohd Puzi	99-108
Energy of Graph Associated to Erdös-Rényi Model Network Muhammad Haziq Abd Halim, Hazzirah Izzati Mat Hassim	109-117
The Application of Root Finding Method to Determine the Volume of Petroleum in An Underground Storage Tank Muhammad Khuzaimi Afiq Gazali, Shazirawati Mohd Puzi	118-127
2D-Parabolic Equation Model for Fruit Waste Drying Process Using Instant Control Pressure Technique Muhammad Noor Akmal Buhari, Norma Alias	128-135
Barabási-Albert Model of Graph Theory in Social Media Network Muhammad Yusnizam Mohd Zahir, Amidora Idris	136-143
Analysis of Three Species Lotka-Volterra Predator-Prey Models with Omnivory Muhammad Zulhakimi, Anati Ali	144-149
Numerical Solution of One-Dimensional Heat Equation using Method of Lines Nannthini Kumaragurubaran, Shazirawati Mohd Puzi	150-160
Mathematical Analysis of Diseased Predator-Prey Model with Predator Harvesting Nasrin Zulaikha Muda, Faridah Mustapha	161-174
Laplacian Energy of Conjugacy Class Graph and Conjugate Graph Associated to Some Dihedral Groups Nik Abdul Hadi Noor Nasran, Nor Haniza Sarmin	175-182
Solving One-Dimensional Diffusion Problem by using Finite Element Method Nur Ain Mad Alwi, Muhamad Najib Zakaria	183-192