

## TABLE OF CONTENTS

**Volume 1 Number 1**

**May 2010**

### **On New Solutions of Classical Yang-Mills Equations with Cylindrical Sources**

- A. S. Rabinowitch.....1

### **A Modified Limited SQP Method for Constrained Optimization**

- G. L. Yuan, S. Lu, Z. X. Wei.....8

### **Fourier-Bessel Expansions with Arbitrary Radial Boundaries**

- M. A. Mushref.....18

### **Stationary Distribution of Random Motion with Delay in Reflecting Boundaries**

- A. A. Pogorui, R. M. R. Dagnino.....24

### **Boundary Eigenvalue Problem for Maxwell Equations in a Nonlinear Dielectric Layer**

- Y. G. Smirnov, D. V. Valovik.....29

### **Implied Bond and Derivative Prices Based on Non-Linear Stochastic Interest Rate Models**

- G. Sorwar, S. Mozumder.....37

### **Modeling of Tsunami Generation and Propagation by a Spreading Curvilinear Seismic Faulting in Linearized Shallow-Water Wave Theory**

- H. S. Hassan, K. T. Ramadan, S. N. Hanna.....44

### **Numerical Approximation of Real Finite Nonnegative Function by the Modulus of Discrete Fourier Transform**

- P. Savenko, M. Tkach.....65

### **The Structure of Reflective Function of Higher Dimensional Differential System**

- Z. X. Zhou.....76

### **Nonzero Solutions of Generalized Variational Inequalities**

- J. Li, Y. S. Lai.....81