

TABLE OF CONTENTS

目 录

The Second Minimal Skew Energy of Oriented Bicyclic Digraphs (有向双圈图的第二小斜能量)	
Y. B. GAO, C. F. YE.....	77
Controllability of Linear Discrete-Time Systems with Time-Delay in State (状态时滞的离散线性系统的能控性分析)	
J. J. ZHANG, C. X. GAO.....	83
Deposit Insurance Pricing of Excess Reinsurance Based on Geometric Fractional Brownian Motion (基于几何分数布朗运动的溢额再保险存款保险定价)	
H. M. LIU, M. Q. ZHAO.....	90
Researches on Universality of the Lemon Phenomenon (柠檬现象的普遍性研究)	
J. GUO.....	96
Supercloseness Analysis of an H^1-Galerkin Nonconforming Mixed Finite Element Method for Sine-Gordon Equations (Sine-Gordon 方程 H^1 -Galerkin 非协调混合元法的超逼近分析)	
Y. H. SHI, F. L. WANG.....	105
A Remark on the Pricing Problem for Discrete Arithmetic Average Asian Options (离散算术平均亚式期权定价的一个注记)	
F. WU.....	112
An Analysis of the Kinetics of Enzymatic Systems Based on Computer Algebra Theory (基于计算机代数理论的酶促系统动力学分析)	
K. ZONG, J. P. YU, S. P. WU, Y. L. SUN.....	117
The Empirical Study of the Shanghai Composite Index Based on ARCH Model (基于 ARCH 模型对上证综指的实证研究)	
Y. P. FU, Z. G. WANG.....	124
Blowup of Solutions for a System of Doubly Nonlinear Degenerate Parabolic Equations with p-Laplacian (多重非线性退化的 p-Laplacian 抛物方程组解的爆破)	
L. F. QI, J. SU, Q. Y. HU.....	129
Immersed Interface Method for Elliptic Interface and Heat Conduction Problem (椭圆及热传导界面问题浸入界面方法的研究)	
L. P. ZHANG, J. P. ZHAO, S. ZHANG.....	136

A High-Resolution Finite Volume Scheme Based on Newtonian Interpolation

(基于牛顿插值的高分辨率有限体积格式)

W. GAO, Q. ZHANG, H. LI, Y. LIU.....150

Using SAS MACRO Programs to Build a Polynomial Model and Do the Selection of Variables

(用 SAS MACRO 程序建立多项式模型与变量筛选)

K.-J. WANG.....162

The $H - Hopf$ Module of Quantum Electrodynamics on Planar Binary Tree

(在平面二元树族上的量子电动力学的 $H - Hopf$ 模)

M. H. JIANG, B. S. REN, R. J. ZHAO, J. W. LIU.....172

Mathematical Modeling about the Consumption of Fruits and Vegetables Based on the Human

Body Nutritional Requirement

(基于人体营养需求的果蔬消费量的数学建模)

X. ZHAO, Y. R. GAO.....182

Cavity Reconstruction Algorithm Based on Electrical Impedance Tomography

(基于电阻抗成像问题的空腔重构算法)

T. H. FENG.....189

The Non-Smooth Analysis of Filippov Rub-Impact Rotor System

(一类 Filippov 碰摩转子系统的非光滑分析)

J. Q. XU.....197

The Researches of the Continuous Axiom of Erceg's Pseudo-Metric and the Relationships

between Its Basic Spheres

(Erceg 伪度量连续性公理及其基本球的关系的研究)

P. CHEN, Z. J. HU, X. YANG, M. J. JIN, L. L. LIU, Z. G. TIAN.....209