

TABLE OF CONTENTS

目 录

求解线弹性双孔问题的虚拟元方法

Solving the Linear Elastic Porous Problem on Virtual Element Method

- 甄众望, 索宇洋, 马俊驰..... 751

共振双相问题的周期解的存在性

Existence of Periodic Solution of Resonant Double Phase Problem

- 杨艺豪, 鄢兴业..... 759

更高分数阶 Laplacian 方程的径向解

Radial Solutions of Fractional Laplacian Equations

- 杨飒, 魏公明..... 766

四元代数上图的顶点加权 Zeta 函数

Vertex-Weighted Zeta Function of the Quaternion Algebraic Graph

- 李淑雅..... 781

时滞递归神经网络的全局指数同步

Global Exponential Synchronization of Recurrent Neural Networks with Time Delays

- 马丁艺, 姑丽加玛丽·麦麦提艾力..... 795

半 E -凸锥集值映射的择一性定理

A Theorem of the Alternative with the Semi- E Cone Convex Set-Valued Map

- 邹东易..... 804

具有 Holling II 功能反应扩散捕食系统的定性分析

Qualitative Analysis of a Diffusive Predator-Prey System with Holling Type II Functional Response

- 王双特, 于恒国..... 809

曲率与曲率圆的应用探讨

Application of Curvature and Curvature Circle

- 韩艺兵, 文生兰, 贾瑞玲..... 818

基于一道课本例题的探究与拓展

Based on a Textbook Example Question to Explore and Expand

- 邸贺璇, 陈献华, 郭继东..... 824

论牛顿的数学机械化思想

On Newton's Thought of Mathematical Mechanization

- 杨欣童..... 829

Archimedean Spiral 上矩阵值边值问题	
Matrix Valued Boundary Value Problem on Archimedean Spiral	
范少华.....	839
上临界 Markov 分支过程的调和矩	
Harmonic Moment of the Supercritical Markov Branching Process	
肖宁洁, 王娟.....	846
带有积分边界条件的分数阶发展方程 Mild 解的存在性	
Existence of Mild Solutions for Fractional Evolution Equations with Integral Boundary Conditions	
张永, 胡芳芳, 辛珍.....	854
数字经济增加值规模测算方法论的探讨	
Research on the Methodology of Measurement and Contribution Rate of the Digital Economy Scale	
汪佳念, 张楠, 唐星.....	862
形式级数域上 Oppenheim 连分数展式的一些算术性质	
Some Arithmetic Properties of Oppenheim Continued Fraction Expansion over the Field of Formal Series	
薛文.....	875
涉及分担小函数正规定则的研究	
Research on the Normal Rule of Sharing Small Functions	
王瑶.....	881
几类组合和式的相关同余式	
Congruences of Several Kinds of Combinatorics Sums	
王明会, 靳海涛.....	886
打靶法在分数阶微分方程边值问题中的一些应用	
Some Applications of Shooting Method in Boundary Value Problem of Fractional Differential Equation	
陈辰.....	895
具有等比例的猎物避难所的 Holling I 型捕食 – 食饵模型的全局动力学	
Global Dynamics of Holling Type I Predator-Prey Model with Equal Proportion of Prey Refuge	
罗丹.....	902
双线性分数次积分算子在极大变指标 Herz 空间上的有界性	
Boundedness of Bilinear Fractional Integral Operators on Grand Variable Herz Spaces	
方光杰.....	917
边加权的边自由商图的 Zeta 函数	
Edge-Weighted Zeta Functions of Edge-Free Quotients of Graphs	
顾雪君, 朱林.....	935

完全多部图的点被多重集可区别的 IE-全染色

Vertex Distinguishing IE-Total Coloring of Complete Multipartite Graphs by Multisets

王勇军 942

粒子群支持向量回归在金融时间序列预测中的应用

Application of Particle Swarm Support Vector Regression in Financial Time Series Prediction

陈小铜 948

基于改进的格雷码法的三维重建系统

A Three-Dimensional Reconstruction System Based on Improved Gray Code Method

郑文迪, 陈胜 957

第一类柯西奇异积分方程的有效配置求解法

The Efficient Collocation Method for Solving the First Kind of Cauchy Singular Integral Equation

陈锐, 陈冲 968

基于深度学习通道交换的多模态脑肿瘤图像融合的分割模型

Multimodal Brain Tumor Image Fusion Segmentation Model Based on Deep Learning**Channel Swapping**

张硕瀛, 贺光华 976

一类半正二阶 Neumann 问题正解的存在性

Existence of Positive Solutions for a Class of Semi-Positone Second Order Neumann Problems

石琳琪 987

具比例时滞的 Cohen-Grossberg 神经网络的稳定性研究

Stability Analysis of Cohen-Grossberg Neural Networks with Proportional Delays

古力加依娜·木合亚提, 姑丽加玛丽·麦麦提艾力 996

脉冲切换系统有限时间输入到状态稳定性研究

Study on Finite-Time Input-to-State Stability of Impulsive Switched Systems

吴迪 1007

一类带不连续值的二维趋化系统解的全局存在性

Global Existence of a Two-Dimension Chemotaxis System with Discontinuous Data

钟华, 彭红云 1018

Goillnitz Gordon 函数相关函数的新模关系及证明

Some New Modular Relations of Gollnitz-Gordon Function Correlation Function and Its Proof

刘玉娇, 吴辉 1033

基于 Sugeno 则度半一致模 Choquet 积分的特性

The Character of the Choquet Integral of Semi-Uninorm Based on Sugeno Measures

李巧霞, 扬雨荷, 辛珍 1040

非参数动态空间随机前沿模型的贝叶斯估计

Bayesian Estimation of Nonparametric Dynamic Spatial Stochastic Frontier Models

罗林娟 1049

几类闭凸曲线的曲率积分不等式**Curvature Integral Inequalities for Some Classes of Closed Convex Curves**

张泽源, 赵会文 1056

球空间中具有拟平行第二基本形式的超曲面**Hypersurfaces with Quasi-Parallel Second Basic Form in Spherical Space**

苏峰 1062

不同信噪比下四种黎曼度量的数学机理和分析**Mathematical Mechanism and Analysis of Four Riemannian Distances with Different Signal-to-Noise Ratios**

余婷 1073

关于极大线性无关组和线性空间中基的扩充问题的讨论**Discussion on the Expansion of Maximum Linear Independent Groups and Bases in Vector Space**

杨晓梅, 孟吉翔, 赵飚 1079

含组合型 GMWB 条款的变额年金定价**Pricing of Variable Annuities with Combined Guaranteed Minimum Withdrawal Benefit**

宫晶, 陈萍 1083

一类耦合 KdV 型方程的周期波解、孤波解及它们随 Hamilton 能量的演变关系**Periodic and Solitary Wave Solutions of a Class of Coupled KdV Equation and Their Evolution****Relation with Hamilton Energy**

张卫国, 张雪, 姚倩 1090

二维 Benjamin-Ono-Zakharov-Kuznetsov 方程的规范解**Normalized Solitary Waves of the Two-Dimensional Generalized****Benjamin-Ono-Zakharov-Kuznetsov Equation**

王元舜 1122

基于 Sugeno 则度半一致模 Choquet 积分**The Choquet Integral of Semi-Uninorm Based on Sugeno Measures**

李巧霞, 徐苏苏, 辛珍, 扬雨荷 1135

具有 Dirichlet 边界条件的非线性波动方程的时间周期解**Time Periodic Solutions of Nonlinear Waveequation with Dirichletboundary Conditions**

曾燕苗, 马牧 1142