

TABLE OF CONTENTS

目 录

武器装备维修备件需求预测研究 Research on Demand Forecast of Weapon Equipment Maintenance Spare Parts 宋光浩.....	809
一类含 p -Laplace 算子的奇异拟线性问题解的多重性 Multiplicity of Solutions of a Class of Singular Quasilinear Problems Involving p -Laplacian 徐颖颖.....	817
基于博弈策略下的新冠模型研究：以印度为例 A COVID-19 Model Based on Game Theory: A Case of India 于洋, 李明涛, 柴玉珍.....	828
基于全球变暖对气候预测的研究 Researching on Climate Prediction with Global Warming 焦琳致.....	843
级数理论的实际应用初探 A Preliminary Study on the Practical Applications of Series Theory 陈诗宇, 晋子钰, 沈洁.....	858
耗散型随机非线性薛定谔方程的共形动量 Conformal Momentum of Damped Stochastic Nonlinear Schrödinger Equation 陈红宇.....	865
无穷维序列空间的非线性宽度 Nonlinear Width of an Infinite-Dimensional Sequence Space 贺小航, 赵家锐.....	871
向量值 Hardy 空间上的复对称块 Toeplitz 算子 Complex Symmetric Block Toeplitz Operators on Vector-Valued Hardy Spaces 崔姝宁, 李佳, 冯琳颖.....	878
一类金融动力系统的 Lyapunov 指数计算及混沌动力学分析 Lyapunov Exponent Calculation and Chaotic Dynamics Analysis for a Kind of Financial Dynamic System 王雪歌, 黄东卫.....	887
一类随机抛物最优控制问题的集成蒙特卡洛隐式 Euler 法 An Ensemble Monte Carlo Implicit Euler Method for a Class of Stochastic Parabolic Optimal Control Problems 吴雪芳, 罗贤兵.....	899

具有阶段结构和 Allee 效应的捕食 - 食饵模型的随机动力学分析 Stochastic Dynamics Analysis of a Predator-Prey Model with Stage Structure and Allee Effect	
冯赛提, 张天四.....	909
基于 Pena 距离的 KL 估计的影响分析 Influence Analysis of KL Estimation Based on Pena Distance	
王孟孟, 田维琦.....	923
模拟新型冠状病毒传播特征 Modeling the Epidemic Features of COVID-19	
汪妍, 李玟, 张紫意, 赵奇林, 胡宸菲, 孙廷哲.....	931
高斯信道下功率不平衡 SCMA 码本设计 Design of Power Imbalance SCMA Codebook in Gaussian Channel	
高志成, 李旭东.....	939
开放式基金投资组合风险度量 The Risk Measurement on Portfolio of Open-End Fund	
孙志芳, 卢俊香.....	946
基于 PSO-TVAC 的中心自适应权的 FCM 聚类算法 FCM Clustering Algorithm Based on PSO-TVAC Algorithm with Adaptively Weighted Centers	
胡建华, 尹慧琳.....	953
概率框架下对角算子的熵数 Entropy Number of Diagonal Operators under Probabilistic Framework	
孙璐, 陈锦.....	963
基于 DRF-KPCA 和非线性面板模型的地区涉恐安全风险评估与影响因素研究 Regional Terrorism-Related Safety Risk Evaluation and Its Determinants Research Based on DRF-KPCA and Nonlinear Panel Model	
黄苏莉, 陆秋君.....	974
斜对角无穷维 Hamilton 算子的数值域和二次数值域 Numerical Range and Quadratic Numerical Range of Off-Diagonal Infinite Dimensional Hamiltonian Operators	
张娅, 高强, 张欣琦, 刘家乐, 吴德玉.....	989
求解时空分数阶扩散方程反源问题的数值方法 A Numerical Method for Solving the Inverse Source Problem of the Space-Time Fractional Diffusion Equation	
段柔姿.....	996
基于多层次模糊综合评价法的城市道路通行能力评价研究 Study on Urban Road Capacity Evaluation Based on Multi-Level Fuzzy Comprehensive Evaluation Method	
胡玥, 林耿.....	1003

海洛因和 HIV 同时感染和传播的动力学行为

Dynamics of Heroin and HIV Co-Infection and Co-Transmission

程焕焕.....1016

HPV 疫苗发展现状调查研究

Research on the Current Situation of HPV Vaccine Development

章安妮, 郑瑶瑶, 刘源, 张青菁, 王冰茹, 吕平.....1026

中心对称矩阵的广义中心对称{1, 4}逆的迭代算法

Iterative Algorithm for Generalized Centrosymmetric {1, 4} Inverse of Centrosymmetric Matrix

陈世军.....1032

非线性分数阶泛函微分方程组边值问题的可解性

Solvability for Boundary Value Problems of Nonlinear Fractional Functional Differential Systems

全欢.....1039

基于结构方程模型的行政许可满意度评价研究

A Study on Satisfaction Evaluation of Administrative License Based on Structural Equation Model

万昀焯, 曹和瑞, 翁武泰.....1053

考虑竞争失效的多阶段二元随机退化系统可靠性建模与分析

Reliability Modeling and Analysis of Considering Competition Failure Multi-Stage Bivariate Stochastic Degradation Systems

秦红志, 董庆来, 王伟伟.....1063

阶层认同和自评健康对居民商业养老保险参保行为的影响

The Influence of Class Identity and Self-Rated Health on Residents' Commercial Pension Insurance Participation Behavior

张维行.....1076

基于广义 Lyapunov 方法的植物传染病模型的全局动力学

Global Dynamics for a Plant Disease Model Based on Generalized Lyapunov Approach

冷轩, 陈会敏.....1086

基于离散小波变换和离散余弦变换的彩色图像水印算法

Color Image Watermarking Algorithm Based on Discrete Wavelet Transform and Discrete Cosine Transform

赵瑶瑶, 李万社.....1096

一类带有导数项的非线性薛定谔方程的行波解

Traveling Wave Solutions for a Nonlinear Schrodinger Equation with Derivative Terms

成蓉华, 项琳.....1103

关于分块矩阵相似性的探讨

On the Similarity of Block Matrix

程宇.....1109

基于幅度的 CLEAN 天文图像重建算法 An Amplitude-Based CLEAN Astronomical Image Reconstruction Algorithm	
张利, 卫星奇, 卢梅, 肖一凡, 米立功, 贺春林, 王蓓, 谢泉.....	1115
基于异构自回归模型的股市波动率研究 The Study on Stock Market Volatility Based on Heterogeneous Autoregressive Model	
王帅.....	1122
求解一维对流扩散方程的高阶方法 High-Order Methods for Solving One-Dimensional Convection-Diffusion Equations	
刘艺明, 刘红霞.....	1132
传感器网络上的非线性系统的加权融合估计 Weighted Scheduling Fusion Estimation for Nonlinear Stochastic System over Sensor Networks	
石也明, 肖寒臣, 石玉成.....	1141
具有染病者筛查和性别结构的随机 AIDS 传染病模型分析 Analysis of a Stochastic Sex-Structured AIDS Epidemic Model with Effect of Screening of Infectives	
赵晓琦, 董玲珍.....	1153
非均匀复变解析函数零点的孤立性及惟一性 Solidarity and Uniqueness Theorems of Zeros of Heterogeneous Complex Analytic Functions	
陈怡凡, 张罕奇, 陶继成.....	1168
新型冠状病毒疫情分析及预测研究 Analysis and Prediction of Novel Coronavirus Epidemic	
郑梦迪, 孙菊贺, 刘昊.....	1175
非自治单种群 Chemostat 模型的全局渐近稳定性 Global Asymptotic Stability of a Non-Autonomous Single-Population Chemostat Model	
邢喜民, 辛巧, 薛婷婷, 徐加波.....	1184
传染率为 $\beta SI/(cN + I)$ 的 SIRS 模型及数值模拟 A SIRS Model with Infection Rate of $\beta SI/(cN + I)$ and Its Numerical Simulation	
闫盼盼, 杨春雨.....	1191
三角势垒下的隧穿时间 The Tunnel Time in a Triangular Potential	
郑爽, 肖智.....	1197
一类带有时滞效应的修正的 Leslie-Gower 捕食者 - 食饵模型动力学分析 Dynamics Analysis of a Modified Leslie-Gower Predator-Prey Model with Time Delay	
苏婧婧.....	1207
Cantor 集与 Cantor 函数性质探究 Research on the Properties of Cantor Sets and Cantor Functions	
栾佳璇.....	1222

Fokker-Planck 方程 TVD 有限体积方法 TVD Finite Volume Method for Fokker-Planck Equation	
王馨婕.....	1229
SARIMA 模型在新疆布鲁氏菌病发病预测中的应用 Application of SARIMA Model in Prediction of Brucellosis in Xinjiang	
张隆, 邢喜民, 徐加波.....	1233
零膨胀几何分布的变量选择 Variable Selection of Zero-Inflated Geometric Distribution	
文静蕊, 赵丽华.....	1243
具有左右分数阶导数和时滞的非瞬时脉冲微分方程非线性边值问题 Nonlinear Boundary Value Problems for Non-Instantaneous Pulse Differential Equations with Left-Right Fractional Derivatives and Delays	
张雨馨.....	1255
体积元几何与 Jacobi 行列式之关系 The Relationship between Volume Element Geometry Related and Jacobi Determinant	
朱欣欣.....	1270
非奇异 H-矩阵的一组细分迭代实用判定方法 A Set of Subdivision Iteration Practical Criteria for Nonsingular H-Matrix	
吴乐, 庾清, 石慧.....	1290
一类分数阶调和映射迭代算法的收敛性 Convergence of Iterative Algorithm for a Class of Fractional Harmonic Maps	
李东雪.....	1301
基于事件触发控制带有参数不确定的时滞 Lur'e 系统主从同步 Master-Slave Synchronization of Time-Delay Lur'e Systems with Parametric Uncertainty Based on the Event-Triggered Mechanism	
马健武, 高燕, 顾凤蛟, 陈玲琦.....	1307
一类特殊正定矩阵的证明问题 The Proof Problem of a Special Positive Definite Matrix	
徐晓静.....	1324
基于小波分析的信号去噪研究 Research on Signal Denoising Based on Wavelet Analysis	
位瑞英, 卓坚毅.....	1329
平面库伦摩擦系统的动力学分析 Dynamic Analysis of Planar Coulomb Friction System	
陈会敏, 冷轩.....	1336

在占空比无线传感器网络中寻找多约束路径的算法

Algorithms for Finding Multi-Constrained Paths in Duty-Cycle Wireless Sensor Networks

郝晨莹, 张淑蓉, 杨卫华.....1342

样本协方差矩阵的特征值的中偏差原理

Moderate Deviation Principle of the Eigenvalues of the Sample Covariance Matrix

金鑫, 解永晓.....1350

半经典次临界增长 Schrödinger-Poisson 方程组变号解的存在性和集中现象

Existence and Concentration of Infinitely Many Sign-Changing Solutions of Semiclassical Subcritical Growth Schrödinger-Poisson Systems

王星.....1359

Burgers 方程的时空 Legendre 谱配置方法

Space-Time Legendre Spectral Collocation Methods for Burgers Equation

宋健, 王天军, 霍金键.....1380

离线/在线的可验证外包属性代理重加密方案

Offline/Online Attribute-Based Proxy Re-Encryption with Verifiable Outsourced Decryption

杨善慧, 侯金秋, 彭长根, 张小玉.....1387

(2 + 1)维 Hirota-Satsuma-Ito 方程的呼吸波与不同非线性波之间的态转换

State Transformations between the Breather Wave and Different Nonlinear Waves for the (2 + 1)-Dimensional Hirota-Satsuma-Ito Equation

张丹丹.....1403