

TABLE OF CONTENTS

目 录

具有疫苗接种的 COVID-19 传播模型的动力学分析 Dynamical Analysis of a COVID-19 Transmission Model with Vaccination	
赵勇盛, 张蒙	1187
移动环境下具有时滞的 Lotka-Volterra 合作模型的行波解 Traveling Wave Solutions of a Lotka-Volterra Cooperative Model with Time Delay in a Shifting Environment	
肖义萍	1197
Caputo 分数阶微分方程解的唯一性 Uniqueness of Positive Solutions for the Caputo Fractional Differential Equation	
徐超宇, 王颖, 訾玉梅	1210
二维非线性四阶分数阶波动方程的 BDF2-WSGI 有限元算法 BDF2-WSGI Finite Element Algorithm for a Two-Dimensional Nonlinear Fourth-Order Fractional Wave Equation	
刘心愿	1217
电磁感应效应对神经网络中相干共振的影响研究 Research on the Effect of Electromagnetic Induction on Coherent Resonance in Neuronal Networks	
周春慧子, 伦秋文	1226
一类具鞍点-可视折点的平面 Filippov 系统的分支分析 Bifurcation Analysis for a Class of Planar Filippov Systems with Saddle-Visible Fold Singularity	
陈艺柯	1234
一类具有不连续控制策略的肿瘤免疫系统的全局动力学 Global Dynamics of a Class of Tumor-Immune Systems with Discontinuous Control Strategies	
刘粤湘	1248
三维环境下采用势函数对 AUV 进行路径规划 The Potential Function Is Used to Plan the Path of AUV in 3D Environment	
雷梦婷	1261
高精度积分值四次 B 样条拟插值 High Accuracy Integro Quartic B-Spline Quasi-Interpolation	
庄荔婷, 彭兴璇	1273

具有常数正 Ricci 曲率的图 Graphs with Constant Positive Ricci Curvature 黄绮琪, 何伟骅, 张朝钦	1286
一类化学活性流体方程组解的存在唯一性 Existence and Uniqueness of Solutions for a Class of Chemically Active Fluid Equations 王长佳, 苏日娜	1292
《信息科学基础》试卷质量的统计与分析 Statistical Analysis of the Quality of <i>Fundamentals of Information Science</i> Text Paper 廉爽, 张妍	1308
耦合范围对环型神经网络的影响 Effect of Coupling Range on Ring Neural Networks 李超越, 谢浩浩, 贺鑫	1314
基于 Levenberg_Marquardt 的声发射源定位算法 Sound Source Localization Algorithm Based on Levenberg_Marquardt 王子维, 阎少宏	1327
利用群作用构造一类不可测集 A Class of Non-Measurable Sets Is Constructed by Using Group Action 梁亚华	1334
基于逻辑回归的衡阳市高职毕业生离职问题研究 A Study on the Resignation of Vocational College Graduates in Hengyang City Based on Logistic Regression 李凌云, 申娇娣, 李合军, 彭姣丽, 孙兴, 骆又麟, 陈恒	1338
刚性立管涡激振动的数值模拟方法研究 Research on Numerical Simulation Methods for Vortex-Induced Vibration of Rigid Risers 马宁, 刘耀斌, 贾光燕, 崔振轩	1345
一类平均场型随机微分方程的存在唯一性定理 Existence and Uniqueness Theorem for a Class of Mean-Field Stochastic Differential Equations 裴博超, 王岩, 尉子璇	1354
微极 Navier-Stokes 方程的一种二阶时间步算法 A Second-Order Time-Step Algorithm for the Micropolar Navier-Stokes Equations 王思全	1362
基于近似一阶信息的改进的加速水平束方法 An Modified Accelerated Level Bundle Method Based on Approximate First Order Information 李艳妮	1368

具有两阶段结构的登革热传染病时滞动力学模型 A Time-Delay Dynamic Model of Dengue Fever Infection with Two-Stage Structure	
杨艳红, 刘贤宁	1378
监控广义线性 Profile 数据的变样本容量动态控制图 Dynamic Control Charts with Variable Sample Size for Monitoring Generalized Linear Profile Data	
邹俊杰, 齐德全	1391
基于优势熵矩阵的模糊软集三支决策方法 Three-Way Decision Method of Fuzzy Soft Set Based on Dominant Entropy Matrix	
胡凯欣	1399
非线性时间分数阶四阶混合次扩散和扩散波动方程的混合有限元算法 Mixed Finite Element Algorithm for a Nonlinear Time-Fractional Fourth-Order Mixed Sub-Diffusion and Diffusion Wave Equation	
杨宁	1415
偏多标记分类学习 Partial Multi-Label Classification Learning	
王小碧	1425
关于矩阵秩不等式问题的证明与应用 The Proof and Application of Inequality Problem Related to Matrix Rank	
何雪萍	1433
蔬菜类商品的分类和销售策略问题的研究 Research on the Classification and Sales Strategy of Vegetable Product	
袁文清, 朱晋铭, 孟铂凯, 鲁忠良, 张镇宇, 于洺刚	1448
双星 $S_{2,6}$ 的平面 Turán 型问题的一个上界 An Upper Bound for the Planar Turán Type Problem of Double Star $S_{2,6}$	
胡越, 张旭	1463
一类新 CZCPs 的构造 The Construction of a New CZCPs	
陈俊洁	1470
基于饱和发生率的游客人数模型的动力学分析 Dynamic Analysis of Tourist Number Model Based on Saturation Incidence Rate	
刘娇, 金银芳, 金银来	1477
我国人口老龄化的非参数统计分析 Variation Analysis of the Population Aging in China Based on Nonparametric Statistics	
闫文璐, 沈思连, 张英杰	1486

路和完全图的乘积图的线性荫度 The Linear Arboricity of the Product of Path and Complete Graph 易思梦	1494
有向图的谐波分析：从傅里叶到小波 Harmonic Analysis of Digraphs: From Fourier to Wavelet 成宇珠, 李万社	1500
红色 + 体育旅游发展模式在溧阳市水西村的开发策略研究 Study on the Development Strategy of Red + Sports Tourism Development Model in Shuixi Village, Liyang City 李芳源, 刘润桢, 刘松瑞, 张俞, 吴俏丽	1514
稀疏相依风险模型下具有时滞效应的最优再保险和投资问题 Optimal Reinsurance and Investment Problems with Delay Effects in a Thinning Dependent Risk Model 高钰杰, 张强	1523
沥青路面表层温度场高精度数值仿真与参数反演 High-Precision Numerical Simulation and Parameter Inversion of Asphalt Pavement Surface Temperature Field 宋瑞利, 吴建良, 杨军	1536
几类特殊图的广义邻接距离谱 Generalized Adjacency Distance Spectrum of Several Classes of Special Graphs 孙会路	1542
回收锥和回收函数的性质 The Properties of Recession Cone and Recession Function 黄雯, 高英	1558
一类渔业经济模型的复杂动力学行为 Complex Dynamic Behavior of a Kind of Fishery Economic Model 慕云田, 周欢	1565
求解时间分数阶相场微分方程的自适应分数阶物理信息网络 Adaptive Fractional Physical Information Neural Network for Solving Time Fractional Phase Field Partial Differential Equations 杨子晴, 牛瑞萍, 贾宏恩, 李胜利	1575
基于电阻距离的图和复杂网络的相似度问题研究 Similarity of Graphs and Complex Networks Based on Resistance Distance 蔡满乐, 何伟骅	1585
基于隐马尔可夫模型的股票价格预测 Stock Price Prediction Based on Hidden Markov Model 张政, 李俊刚, 李鑫, 王然	1599

基于粒子群算法的定日镜场布局优化研究 Optimization of Heliostat Field Layout Based on Particle Swarm Optimization Algorithm 韩鲁志, 张子晗, 冯叶瑶, 王欣, 王立通.....	1607
d 棵树的笛卡尔乘积图的双宽度研究 The Twin-Width Study of a Cartesian Product Graph of d Trees 彭浩清	1618
基于 Black-Scholes 模型可转债定价的研究 Research on Convertible Bonds Pricing Based on the Black-Scholes Model 刘颖	1623
概率论的发展简史及在医疗领域的简单应用 The Brief History of the Development of Probability Theory and Its Simple Applications in the Medical Fields 胡贵新	1630
一种基于 M 范数惩罚项的线性化 ADMM 算法 A Linearized ADMM Algorithm Based on M-Norm Penalty Terms 王博冉	1637
基于机器学习试析孟德尔随机化研究中 R^2 值预测模型 Analysis of the Prediction Model of R^2 Value in Mendelian Randomization Study Based on Machine Learning 伊力米努尔·艾克拜尔	1643
可违约金融市场中动态 VaR 约束的最优投资策略 Optimal Investment Strategy with Dynamic VaR Constrain in a Defaultable Financial Market 王东立	1648
Robin 边值问题三个正解的存在性 Existence of Three Positive Solutions for Robin Boundary Value Problems 唐旭莹	1663
基于迁移模糊系统的短期电力负荷预测建模 Short-Term Power Load Forecasting Modeling Based on Transfer Fuzzy System 李秋琰	1671
信号系统中冲击函数另一种图形化表示的研究 Research on Another Graphical Representation of Impulse Functions in Signal Systems 凌洪涛	1690
常矩阵耦合的热方程采样控制系统能控性 Controllability of the Sampled-Data Controlled System of Heat Equations Coupled by Constant Matrices 杨济通, 刘汉兵	1696

定日镜场的光热转化与配置优化研究

Research on Photothermal Conversion and Configuration Optimization of Heliostat Mirror Field

许尔文, 黄初 1709

具有共同冲击和错误定价的最优再保险与投资策略

Optimal Reinsurance and Investment Strategies with Common Shocks and Mispricing

孔子榕, 马世霞, 张雨浓 1723

基于 XGBoost 的电影票房影响因素分析及预测研究

Analysis and Prediction of Influencing Factors of Movie Box Office Based on XGBoost

韩淑淑 1738

二元凸复合与 DC 复合优化问题的最优性条件

Optimality Conditions for the Convex Composite Optimization and Composite Optimization of DC with Binary Variable

肖程凤, 田超松 1746

一类 Filiform 李代数的左对称代数结构

The Left Symmetric Algebraic Structure of a Class of Filiform Lie Algebras

宋巍, 吴明忠 1758

基于动态事件触发控制策略的蔬菜商品定价与补货策略

Pricing and Restocking Strategies for Vegetable Products Based on Dynamic Event Triggered Control Strategies

李泽晖, 张璟聪, 巫杰宇, 刘佳豪, 吴万和, 岳红云 1763

基于太阳能光热发电系统效率问题的方案分析

Efficiency Analysis of the Solar Energy System for Electric Generation via Light-to-Heat Conversion

王秉荃, 徐洁, 邢建民 1778

基于图协同过滤的单细胞 RNA 测序数据填补

Imputation of scRNA-seq Data Based on Graph Collaborative Filtering

李雪枫 1800

受捕食影响的单种群时滞模型的动力学

Dynamics of a Delayed Single Population Model with a Predation

谢明铭 1810

具有双临界指数的分数阶 Kirchhoff 方程的正规化解的非存在性结果

A Nonexistence Result of the Normalized Solutions to a Fractional Kirchhoff Equation with Doubly Critical Exponents

张天晴 1817

随机微分博弈模型中的库存管理问题：马尔可夫链近似和最优策略
**Inventory Management Problems in Stochastic Differential Game Models:
Markov Chain Approximation and Optimal Policies**

欧君恒, 卢相刚 1827

基于多级轴向加性网络的轻量级单图超分辨率
Lightweight Single Image Super-Resolution with Multi-Level Axial Additive Network

邹观哲, 黄可言 1842

含有参数的分数阶微分方程在集合 $P_{h,e}$ 中解的存在唯一性
**Existence and Uniqueness of Solutions to Fractional Differential Equations with
Parameters in Set $P_{h,e}$**

陈孝虎, 张玲玲, 王慧 1853

n 次中心对称量子图的可约性
Reducibility of n Subcentrally Symmetric Quantum Graphs

张凯, 赵佳 1862

带复合函数的分式优化问题的最优性条件
Optimality Conditions of the Fractional Optimization Problem with Composite Function

田超松, 肖程凤 1875

R^3 中 p -curl-div 系统解的存在性
Existence of Nontrivial Solutions for p -curl-div System in R^3

杨洋, 滕凯民 1882