

TABLE OF CONTENTS

目 录

The Model of Supermarket Satisfaction Index
(超市满意度指数模型)

K. X. LI, Z. L. KUANG, R. Q. GUO, R. B. KOU, X. GAO..... 743

A Numerical Solution of Mixed Integral Differential Equations
(一类混合型积分微分方程的数值解法)

Y. LIU, Y. L. WANG..... 749

Existence and Uniqueness of Solution for Predator-Prey Population Model with Size-Structured in Polluted Environment
(污染环境下具有尺度结构的捕食种群模型解的存在唯一性)

X. J. CAO..... 758

Research on Task Pricing of Mobile Internet Self-Service Labor Crowdsourcing
(移动互联网自助式劳务众包任务定价问题的研究)

R. FENG, X. Y. FU, R. X. WANG, J. Q. ZHAO..... 766

Harvesting in Gompertz System with Dynamic Price
(动态价格下 Gompertz 系统的捕捞问题)

M. ZHANG, G. ZHANG..... 776

The Application of the Invariant Region
(不变区域的应用)

J. WANG..... 782

Singularity Analysis of a Class of Quadratic System (II) Equations
(一类二次系统(II)类方程的奇点性态分析)

L. J. LI, J. Q. LIN..... 788

Research on Credit Card Risk Detection and Control Based on SVDD
(基于 SVDD 的信用卡欺诈风险检测与管控研究)

P. C. CUI, Y. ZHOU, F. R. MENG..... 794

Data Insights: Historical Evolution and Forecast of Energy Profile
(数据洞察：能源概况的历史演变和预测)

R. FENG, X. Y. FU, R. X. WANG, X. T. GUO..... 806

Study on the Influence of Community Opening on Road Condition by Circuit Simulation
(用电路模拟研究小区开放对路况的影响)

M. S. WANG, S. Y. WANG..... 817

Optimal Design and Control of Cash Register Service System of Supermarkets
(超市收银服务系统最优设计与控制)

L. M. LI, J. B. XU..... 826

Properties of Meromorphic Solutions of a Class of Difference Painlevé Equations
(一类差分潘勒韦方程亚纯解的性质)

B. Q. CHEN, S. LI..... 836

Critical Groups of Zeros for a Quasilinear Elliptic Equation
(一类拟线性椭圆方程零点的临界群)

Z. T. WANG, M. S. DUAN, W. W. LI, Y. Q. WANG..... 842

Pipeline Route Optimization Design
(管道路线的优化设计)

H. D. CHEN, J. K. DU, B. H. ZHANG, Q. J. REN, H. C. SUN..... 848

Positive Solutions for a Class of Nonlinear Elliptic Boundary Value Problem
(一类非线性椭圆型边界值问题的正解)

G. J. QU..... 857

Asymptotic Behavior of Solutions for a Class of Stochastic SIR Models with Virus Mutation
(一类带病毒变异的随机 SIR 模型解的渐近性态)

Y. WANG, J. MA, Y. Q. WEI..... 863

Statistical Inference of Two-Stage Linear Second-Order Conic Stochastic Programs
(线性二阶锥两阶段随机规划问题的统计推断)

Q. S. DUAN, L. W. ZHANG..... 876

Half-Periodic Riemann Boundary Value Problem
(半周期 Riemann 边值问题)

Z. X. LV..... 883

The Impact of Climate Change on Regional Vulnerability
(气候变化对地区脆弱性的影响)

W. F. KONG, Y. J. WANG..... 890

CT System Parameter Calibration and Imaging
(CT 系统的参数标定及成像)

H. YANG, Z. T. MA, W. W. JU..... 903

Dynamic Analysis of Predator-Prey System with Allee Effect and State Control
(具有 Allee 效应和状态控制的捕食 - 食饵系统的动力学分析)

K. L. MA..... 918

A Study on Pricing of Kanzhangbao Income Document Product Based on Binary Options
(基于二元期权组合的看涨宝收益凭证产品定价研究)

Y. ZHANG, R. J. WANG, B. SONG..... 934

A Class of Strong Deviation Theorems for Arbitrary Random Field with Respect to the Binomial Distributions on Generalized Gambling Systems Indexed by a Tree
(广义赌博系统中任意树指标随机场关于二项乘积分布的一类强偏差定理)

Z. QIN, K. K. WANG..... 947

Multiscale Analysis of a Generalized Logistic Model with Slowly Varying Parameters
(关于时间慢变的广义 Logistic 模型的多尺度分析)

L. LI, F. XIE..... 956

The First Integral Method for Solving Exact Solutions of Two Nonlinear Schrodinger Equations
(基于首次积分法求解两个非线性薛定谔方程的精确解)

Q. M. ZHANG, M. XIONG, L. W. CHEN..... 962