

# 目 次

## 论 文

### 数学

- 普通型 Bell 多项式及其矩阵 ..... 杨胜良 张慧婷(6949)  
具偏差变元高阶中立型微分方程的周期解 ..... 陈仕洲(6953)  
 $\alpha$ -严格对角占优矩阵与 SOR 迭代法的收敛性定理 ..... 田秋菊 宋岱才 郭小明(6956)

### 力学

- 聚能射流形成及破甲过程的数值模拟分析 ..... 韩秀清 曹丽娜 曹宇新等(6960)

### 生物科学

- 植物叶片粗枝网络结构多工况模拟分析 ..... 刘旺玉 刘希凤(6965)

### 农业科学

- 带温度测试模块的 TDR 测试系统研制及温度校准 ..... 冯 炜 沈绍祥 纪奕才等(6971)  
微波加热土壤特性及其影响因素实验研究 ..... 刘 琳 刘振峰 孙 帅等(6977)

### 一般科技

- 西宁市 PREE 系统协调发展研究 ..... 闫 利 段汉明 余 雷(6981)

### 一般工程技术

- 基于子结构法的车内噪声快速修改预测 ..... 乔宇锋 黄其柏 李天匀(6987)  
基于统计孔径的泡沫铝小变形压缩的有限元模拟分析 ..... 苏华冰 黄小清 汤立群等(6991)

### 石油技术

- 不同破乳剂对老化油脱水处理的适应性评价 ..... 王志华 魏立新 王锦秀(6997)

### 仪表技术

- 基于频域盲解卷的齿轮箱信号盲分离 ..... 刘屹立 郑海起 李毓辉(7002)

### 机电技术

- 变速恒频风力发电最大功率捕获控制策略研究 ..... 段玉波 邵海龙 徐建军等(7007)

- 基于改进 RBFNN 的 SOFC 辨识建模[英] ..... 霍海波 刘雨青 吴燕翔等(7012)

### 通信技术

- 光纤激光器泵浦源温度控制模块的设计 ..... 伍浩坤 徐善辉 马国欣(7017)

基于有限脊波变换的多聚焦图像融合新算法

..... 郝福珍 苗启广(7022)

基于相位校正的直扩接收机抗窄带干扰方法

..... 吴玉龙 沙学军 唐 瑶(7026)

跳频 OFDM 系统设计与实现

..... 凡根喜 曹英烈 崔 苗(7030)

### 计算机技术

网络无纸化考试系统研究与实现 ..... 胡双炎 易连结(7034)

改进的模糊增强算法在地震图像处理中的应用

..... 唐世伟 聂明明 何 雷(7040)

基于复杂适应理论的电子信息系统模型构建

..... 朱诗兵 陈 刚 任昊利等(7044)

Service Provider Interface 技术研究及实现 ... 严家兴(7050)

### 交通运输

冲击压实技术在山区旧水泥砼路面修复中的应用

..... 李晓华(7056)

黏性流中船舶自由横摇衰减运动数值模拟

..... 纪东方 朱良生(7061)

TransCAD-VISSIM 在交通影响分析中的应用

..... 易 璐 李志强(7066)

基于 Logit 模型的珠三角城际轨道交通与公路客运竞争力研究 ..... 胡郁葱 刘 勤(7070)

### 管理科学

我国农民增收质量的定量研究 ... 惠树鹏 蔺全录(7076)

## 综 述

### 医药卫生

艾滋病治疗药物的研究进展

..... 张红霞 黄荣清 杨建云等(7081)

### 研究简报

### 数学

经典 Lie 对称在 Burgers 方程中的应用 ..... 谌文超(7088)

关于新 Smarandache 函数的部分数列 ..... 冯治宇(7090)

关于无  $m$  次幂因子数的混合均值 ..... 黄 炜(7094)

关于指数丢番图方程  $a^x + b^y = c^z$  ..... 周长根(7097)

一类二阶微分方程组边值问题三解的存在性

..... 路俊培 张丹丹 刘衍胜(7099)

定性贝叶斯网络中归并计算的进一步探讨及应用

..... 崔春生 吴祈宗(7102)

分布时滞离散系统的全局鲁棒稳定性准则

..... 康 卫 钟守铭(7106)

(下转封三)

## (上接封二)

### 化学

微波消解-火焰原子吸收法连续测定三氯苯阱中的铬、铁含量 ..... 裴端 贾文平(7110)

### 晶体学

空位掺杂  $\text{La}_{2/3}\text{Ba}_{1/3}\text{MnO}_3/\text{ZnO}$  复合材料的制备和微结构研究 ..... 许红祥 华正和 马奎荣(7113)

### 生物科学

北京地区野生草本观赏植物资源种类构成及其区系分析 ..... 许蕊 郭佳(7117)

### 一般工程技术

基于 Monte Carlo 法虚拟仪器测量不确定度评定 ..... 袁敏 刘桂雄(7122)

### 矿冶科学

数控铣床刀具半径补偿的分析与应用 ..... 浦艳敏(7126)

### 军工技术

装甲车辆润滑油监测数据的多元回归分析 ..... 张玲 李卫东 吕奎等(7130)

### 计算机技术

连续广义大系统的稳定性与关联参数域 ..... 白俊霞 刘琦 张高民(7133)

改进的回归型支持向量机学习算法 ..... 张朝元 熊明(7138)

基于改进模拟退火算法的二自由度 PID 控制器设计 ..... 霍海波 吴燕翔 刘雨青等(7141)

基于时间序列的市场需求预测模型研究 ..... 邓爱萍 肖奔(7146)

RFID 读写器内存数据结构 ..... 喻剑 赖声礼(7149)

电子政务信息化面临的安全风险浅析 ..... 周克非(7154)

基于 FPGA 的多位格雷码计数器 ..... 李莉(7158)

一种软件项目风险的灰色评价方法及应用 ..... 庞庆华(7162)

分布式舰艇武器装备管理系统中数据共享模型研究 ..... 麋玉林 张帅 桑德一等(7166)

基于 FPGA 的并行数码管显示控制设计 ..... 邱锋波 贺占庄(7170)

基于集合和位运算的频繁集挖掘优化算法 ..... 杨妮妮(7173)

改进的 PrefixSpan 算法在 Web 挖掘中的应用 ..... 谢清森 杨天奇(7176)

一种基于背包问题的图像加密算法 ..... 崔艳 张永红(7180)

基于 MGIS 的部署图生成工具的设计与实现 ..... 曹泽文 邓苏 陈文凯(7183)

改善肉类干燥窑热流场的一种计算方法 ..... 崔寅 吴家鸣 黄文清(7187)

线损理论计算系统与 GIS 信息系统应用集成的研究 ..... 伍国萍 李剑峰(7193)

### 建筑技术

高温下钢筋混凝土异形柱框架破坏形态研究

..... 荆亚涛 姚华桢(7197)

PCMCIA 无线数据上网卡电源电路设计

..... 刘丽丽 李创举(7201)

城市轨道交通施工期间 GPS 控制网检测与分析

..... 杨祝华 徐顺明(7204)

农村节能住宅的复合墙板力学与热工性能设计研究

..... 郝进锋 孙建刚 滕振超等(7210)

冻融循环对兰州黄土边坡稳定性的影响分析

..... 胡伟 吕玉香 姚晓亮等(7214)

尺寸效应对碳纤维加固轴心受压柱的影响

..... 马立伟 刘铮 祝夏(7218)

### 交通运输

基坑开挖对邻近地铁影响的计算分析

..... 刘兵 叶敬彬 余晓琳等(7222)

Dijkstra 改进算法在泊位诱导系统中的应用与仿真

..... 许增昭 许伦辉(7226)

地铁站台屏蔽门渗漏风量计算与分析

..... 陈龙 赵成军(7230)

郑西客运专线列控中心系统体系结构分析 ..... 陈艳华(7233)

基于强度折减有限元法的土质边坡稳定性分析

..... 张永明 符锌砂(7236)

大跨度钢拱桥有限元模型计算分析 ..... 韩永华(7241)

弹性需求下高速公路收费标准合理性评价

..... 余一村 刘伟铭 王飞雄(7245)

基于 ANP 模糊综合评判法的分段生产流程优化

..... 赖志向 叶家玮(7251)

### 航空航天

基于 MEMS 的组合导航系统在制导炸弹中的应用

..... 王榕 林忠贤 雷科(7254)

### 环境科学

高炉渣干法离心粒化实验研究

..... 杨志远 周扬民 闫兆民等(7257)

### 管理科学

一类投资模型的混沌控制 ..... 王国栋(7261)

信息技术设备购置决策阶段技术经济浅析

..... 杨琳 罗鄂湘(7263)

新企业会计准则对于资产减值稳健性的影响——基于 A 股上市公司的实证检验 ..... 吴怡闻 廖斯颖(7267)

基于信号博弈的供需双方委托代理模型研究

..... 王鑫(7271)

ARMA 模型在美元兑日元汇率的应用

..... 杨绍创 袁康安(7276)

勘误表 ..... (7275)

# Contents

## Papers

### Mathematics

- Matrices Related to the Ordinary Bell Polynomials ..... YANG Sheng-liang, ZHANG Hui-ting(6952)  
 Existence of Periodic Solutions for Higher Order Functional Differential Equation with Deviating Arguments ..... CHEN Shi-zhou(6955)  
 $\alpha$ -Diagonal Strictly Dominance Matrix and Convergence Theorem of SOR Iteration Method ..... TIAN Qiu-ju, SONG Dai-cai, GUO Xiao-ming(6959)

### Mechanics

- Numerical Simulation of the Shaped Charge Jet Formation and Penetration through the Wall of Perforating Gun ..... HAN Xiu-qing, CAO Li-na, CAO Yu-xin, et al(6964)

### Biology

- Simulation of the Rough Network Structure of Plant Leaves in Multiple Loading Cases ..... LIU Wang-yu, LIU Xi-feng(6996)

### Agricultural Science

- Design of Time Domain Reflectometry with Temperature Measurement Circuit and Temperature Correction ..... FENG Wei, SHEN Shao-xiang, JI Yi-cai, et al(6976)

- Research on Property and Influence Factors of Heating Soil Using Microwave Energy ..... LIU Long, LIU Zhen-feng, SUN Shuai, et al(6980)

### General Science and Technology

- Study on the Coordinated Growth of Xining's PREE System ..... YAN Li, DUAN Han-ming, YU Lei(6986)

### General Industry Technology

- Fast Modification Prediction for Car Interior Noise Based on Substructuring Method ..... QIAO Yu-feng, HUANG Qi-bai, LI Tian-yun(6990)

- Finite Element Simulation and Analysis of Small Compression of Foam Aluminum Based on the Statistical Hole-diameter ..... SU Hua-bing, HUANG Xiao-qing, TANG Li-qun, et al(6996)

### Petroleum Industry Technology

- Adaptability Evaluation of Different Chemical Demulsifiers on

### Dehydrating of Aging Crude Oil

- ..... WANG Zhi-hua, WEI Li-xin, WANG Jin-xiu(7001)

### Instrumental Technology

- Blind Source Separation (BSS) of Gearbox Signal Based on Blind Deconvolution in the Frequency Domain ..... LIU Yi-li, ZHENG Hai-qi, LI Yu-hui(7006)

### Electro-Mechanical Technology

- Study on Tracking Maximum Power Point in VSCF Wind-power Generation System ..... DUAN Yu-bo, SHAO Hai-long, XU Jian-jun, et al(7011)

### Modeling SOFC Based on Improved RBFNN Identification

- ..... HUO Hai-bo, LIU Yu-qing, WU Yan-xiang, et al(7016)

### Communicational Technology

- Design of the Temperature Controlling Module of Driving Control System of Fiber Laser Pump Source ..... WU Hao-kun, XU Shan-hui, MA Guo-xin(7021)

### A Novel Algorithm of Multi-focus Image Fusion Using FRIT

- ..... HAO Fu-zhen, MIAO Qi-guang(7025)

- Method for Narrow-band Interference Suppression in DSSS Receiver Based on Phase Correction ..... WU Yu-long, SHA Xue-jun, TANG Xun(7029)

### Design and Realization of FH-OFDM System

- ..... FAN Gen-xi, CAO Ying-lie, CUI Miao(7055)

### Computational Technology

- Study and Realization of Paperless Examination System Based on Network ..... HU Shuang-yan, YI Lian-jie(7039)

### Applying Improved Fuzzy Enhancement Algorithm to Seismic Image

- ..... TANG Shi-wei, NIE Ming-ming, HE Lei(7043)

### Modeling of Weapon Equipment Electronic Information System

### Based on Complex Adaptive System Theory

- ..... ZHU Shi-bing, CHEN Gang, REN Hao-li, et al(7049)

### Study and Implementation of Service Provider Interface Technology

- ..... YAN Jia-xing(7055)

### Traffic and Transportation

- Research on the Application of Impact Compaction Technology in Rehabilitating Engineering of Mountainous Old Cement Concrete Pavement ..... LI Xiao-hua(7060)

- Numerical Simulation of Ship Free Roll Decay Motion in Viscous

Flow ..... JI Dong-fang, ZHU Liang-sheng(7065)

Study of Simulation Method in Traffic Impact Analysis

..... YI Lu, LI Zhi-qiang(7075)

Study on Rivalrousness between Intercity Track Transportation and Highway Transportation Based on Logit Model

..... HU Yu-cong, LIU Qin(7075)

## Managerial Science

Quantitive Study on Quality of Farmer Income Growth of China

..... HUI Shu-peng, LIN Quan-lu(7080)

## Survey

### Medicine

Progress in AIDS Drug Treatment ..... ZHANG Hong-xia,

HUANG Rong-qing, YANG Jian-yun, et al(7087)

## Research Notes

### Mathematics

Classical Lie Symmetry Used in Burgers Equation

..... CHEN Wen-chao(7093)

On the New of Smarandache Factorial Par Series

..... FENG Zhi-yu(7093)

One Hybrid Mean Value Formula Involving of  $m$ -th Power Free Numbers ..... HUANG Wei(7096)

On the Exponential Diophantine Equation  $a^x + b^y = c^z$

..... ZHOU Chang-gen(7098)

Existence of Three Solutions for Boundary Value Problems of Second Order Differential Systems

... LU Jun-pei, ZHANG Dan-dan, LIU Yan-sheng(7101)

Further Researches and Application of Composition Process in Qualitative Bayesian ... CUI Chun-sheng, WU Qi-zong(7105)

Global Robust Stability Criterial for Discrete-time System with Distributed Delays ... KANG Wei, ZHONG Shou-ming(7109)

### Chemistry

Determination of Chromium and Iron in Trichloro-phenylhy Drazine Using Microwave Digestion-FAAS

..... QIU Duan, JIA Wen-ping(7112)

### Crystalloraphy

Fabrication and Microstructure of  $\text{La}_{2/3}\text{Ba}_{1/3}\text{MnO}_3/\text{ZnO}$  Composites with La-site Vacancies and Doping

... XU Hong-xiang, HUA Zheng-he, MA Kui-rong(7116)

## Biology

Species Composition and Flora of Wild Ornamental Herbaceous Plants in the Area of Beijing ..... XU Rui, GUO Jia(7121)

## General Science and Technology

Development of Virtual Instruments Measurement Uncertainty Evaluation Based on Monte Carlo Method

..... YUAN Min, LIU Gui-xiong(7132)

## Mining Science

The Analysis and Application of the CNC Milling Machine Tool Radius Compensation ..... PU Yan-min(7129)

## Military

Multi Factor Line Regression of Lubrication Oil Monitor in Armored Vehicles ..... ZHANG Ling, LI Wei-dong, LÜ Xi, et al(7132)

## Computational Technology

Continuous Singular Large-scale Stability of the System Parameters and the Associated Domain

..... BAI Jun-xia, LIU Qi, ZHANG Gao-min(7137)

New Learning Algorithm of the Improved SVM for Regression

..... ZHANG Chao-yuan, XIONG Ming(7140)

Design for Two-degree-of-freedom PID Controller Based on Improved Simulated Annealing Algorithm ..... HUO Hai-bo, WU Yan-xiang, LIU Yu-qing, et al(7145)

Forecasting Model of Market Demand Based on Time Series Analysis ..... DENG Ai-ping, XIAO Ben(7148)

Data Structure in Memory of RFID Reader

..... YU Jian, LAI Sheng-li(7157)

The Security Risk Analysis E-government Information

..... ZHOU Ke-fei(7157)

Multibit Gray Code Counter Based on FPGA ..... LI Li(7161)

Grey Evaluation Method of Software Project Risk and its Application ..... PANG Qing-hua(7165)

Study on the Distributed Data Sharing Model of Shipborne Equipment Management Information System

... MI Yu-lin, ZHANG Shuai, SHANG De-yi, et al(7169)

Design of FPGA-based Parallel Digital Diode Display Control

..... QIU Feng-bo, HE Zhan-zhuang(7172)

An Optimized Algorithm for Mining Frequent Itemsets Based on Set and Bit Operation ..... YANG Ni-ni(7179)

Application of Improved PrefixSpan Algorithm in Web Mining

..... XIE Qing-sen, YANG Tian-qi(7179)

- Digital Image Encryption Algorithm Based on Knapsack Problem ..... CUI Yan, ZHANG Yong-hong(7182)  
 Design and Realization of a Deployment Graph Making Tool Based on MGIS ..... CAO Ze-wen, DENG Su, CHEN Wen-kai(7192)  
 Method of Calculation and Analysis to Improve the Heat Flow Field of Meat Dry Kiln ..... CUI Yin, WU Jia-ming, HUANG Wen-qing(7192)

### Architectural Technology

- Failure Mode of RC Frame with Specially-shaped Column at Elevated Temperature ..... JING Ya-tao, YAO Hua-zhen(7200)  
 Power Circuit Design of PCMCIA Wireless Network Card ..... LIU Li-li, LI Chuang-ju(7203)

- Urban Track Transportation Construction Period GPS Control Net Examination and Analysis ..... YANG Zhu-hua, XU Shun-ming(7209)

- Study on the Compound Wallboard Mechanics and Thermo Engineering Performance Design of Countryside Energy-saving Residence ..... HAO Jin-feng, SUN Jian-gang, TENG Zhen-chao, et al(7213)

- Influence Analysis of Freezing-thawing on Stability of Loess Slope in Lanzhou ..... HU Wei, LÜ Yu-xiang, YAO Xiao-liang, et al(7221)

- The Size Effect of Axial Compressive Column Strengthened by CFRP ..... MA Li-wei, LIU Zheng, ZHU Xia(7221)

### Traffic and Transpotation

- Analysis for Influence on Nearby Existing MTR Tunnel during Excavation Construction ..... LIU Bing, YE Jing-bing, YU Xiao-lin, et al(7250)

- Application and Simulation of Developed Dijkstra Algorithm in the Guidance of Parking Space ..... XU Zeng-zhao, XU Lun-hui(7229)

- Calculation and Analysis for the Leakage Air Flow Rate of Station Screen Door ..... CHEN Long, ZHAO Chen-jun(7232)  
 Research on System Structure of TCC which is Applied in Zhengzhou Xi'an PTSL ..... CHEN Yan-hua(7235)  
 Soil Slope Stability Analysis Based on SSRFEM ..... ZHANG Yong-ming, FU Xin-sha(7240)

- Long-span Steel Arch Bridge Finite Element Model Calculation and Analysis ..... HAN Yong-hua(7244)  
 Evaluation of Rationalization of Expressway Toll Rate under Elastic Demand ..... YU Yi-cun, LIU Wei-ming, WANG Fei-xiong(7250)

- Optimization in Sub-production Processes Based on ANP Fuzzy Comprehensive Judgment ..... LAI Zhi-xiang, YE Jia-wei(7260)

### Aeronautics and Astronautics

- The Application of Integrated Navigation System Based on MEMS for Guided Bomb ..... WANG Rong, LIN Zhong-xian, LEI Ke(7279)

### Environmental Science

- Experimental Study of Dry Centrifugal Granulation of Molten Blast Slag ..... YANG Zhi-yuan, ZHOU Yang-min, YAN Zhao-min, et al(7260)

### Managemental Science

- A Type of Investment Model of Chaos Control ..... WANG Guo-dong(7262)  
 Technology and Economics Analysis on Purchase Decision-making of Information Technology Equipment ..... YANG Lin, LUO E Xiang(7266)  
 Effects on Conservatism Caused by New Accounting Standards ..... WU Yi-wen, LIAO Si-ying(7270)  
 Study on the Principal-agent model of Buyer-supplier Relations Based on Signaling Game ..... WANG Xin(7275)  
 ARMA Model in the Application of USD/JPY Exchange Rate ..... YANG Shao-chuang, YUAN Kang-an(7279)  
**Recorrected Table** ..... (7275)