

南京师大学报

(自然科学版)

第34卷 第1期(总第125期)

2011年3月

目 次

· 数学 ·

- 逼近空间的拓扑方法 李伯权, 贺伟 (1)
B-S 推广模型的亚式期权定价 刘国祥, 陈波, 翁琴 (6)
用指标理论对凸哈密顿系统周期解的一个存在性定理的推广 李科强 (12)
广义 Smash 积和广义 Smash 余积的 Maschke 形式定理 潘群星, 李强, 张良云 (19)
一类基于观测器法的非线性系统的输出反馈控制 毕卫萍, 张俊锋, 柳瑾瑾 (23)
局部回归维数重分形谱的上界估计 严珍珍, 陈二才, 李雷 (29)
两参数随机过程的强马尔科夫性 杜保建, 何朝兵, 袁付顺 (35)
计算长方矩阵加权群逆的有限算法 胡振英, 陈新, 张红潮 (39)

· 物理学 ·

- 规则区域内弱岛链的半经典波函数(英文) 杨双波 (43)
谐振频率下 Terfenol-D/Pb(Zr,Ti)O₃ 层状磁电复合材料的常温巨磁电容效应 王巍, 唐建国 (48)
超声手术刀换能器的谐振频率特性研究 罗珺, 阮程, 徐寅林 (52)
含杂质一维原子链热导 Monte Carlo 模拟 杨理, 潘亮, 朱佳利, 杨钰, 刘红 (55)

· 化学 ·

两种基于苯并咪唑衍生物配体的新型铱(Ⅲ)配合物的合成及发光性能研究

..... 徐治安, 蒋晓青, 孙培培 (59)

光谱法研究敏化的 TiO₂ 纳米粒子光催化降解罗丹明 B 的途径

..... 刘海龙, 周 艳, 黄鹤勇, 冯玉英, 王兴和 (64)

负载型二氧化钛催化剂的制备及催化降解苯酚的研究 石 倩, 王玉萍, 彭盘英 (68)

无定型那格列奈的制备与表征(英文) 马 超, 李 钢, 朱 侃, 陈小青 (74)

· 生命科学 ·

中国十三省农田池塘蛙类的衰减 戴建华, 马佳月, 徐玲琳, 魏永强, 顾易凡, 周开亚 (80)

恩诺沙星配伍蒲甘散对异育银鲫败血症的疗效研究 王习达, 陈 辉, 沙 莎, 刘训猛, 吴国荣 (86)

植物内生细菌 XG32 菌株 16S rRNA 寡核苷酸探针杂交条件优化和特异性验证

..... 刘 佳, 王梅霞, 闫淑珍, 陈双林 (89)

基于 16S rRNA 和 16S-23S rRNA 基因间隔区序列探讨陆生和水生螺原体菌株的系统发生关系

..... 毕可然, 顾 伟, 王 文, 阎斌伦, 张晓君 (96)

· 地理学 ·

土壤重金属镉污染的生物修复技术研究进展 徐良将, 张明礼, 杨 浩 (102)

基于保护对象的海岛特别保护区范围划定技术 王在峰, 徐 敏, 包 蓉 (107)

面向警务 GIS 的地图优化表达方法研究——以南京市警务 GIS 为例

..... 齐 琳, 沈 婕, 张 宏, 樊佳佳 (114)

城市化背景下区域湿地生态安全多尺度综合评价 郝敬锋, 刘红玉, 胡和兵, 安 静 (119)

[期刊基本参数] CN 32-1239/N * 1955 * q * A4 * 128 * zh * P * ¥8.00 * 1150 * 24 * 2011-03

主编: 陈凌孚; 副主编: 陆炳新(常务), 孙德泉; 执行编辑: 丁 蓉

公开发行

JOURNAL OF NANJING NORMAL UNIVERSITY
(Natural Science Edition)

Vol. 34 No. 1 (Sum. 125)

Mar, 2011

CONTENTS

Topological Approach for Proximity Spaces	Li Boquan, He Wei (1)
On Asian Option Pricing for Generalized Model of Black-Scholes Model	Liu Guoxiang, Chen Bo, Weng Qin (6)
A Generalization of Existence of Periodic Solution of Convex Hamiltonian System by Using Ekeland Index Theory	Li Keqiang (12)
Maschke-Type Theorems for Generalized Smash Product and Generalized Smash Coproduct	Pan Qunxing, Li Qiang, Zhang Liangyun (19)
Output Feedback Control of a Class of Nonlinear Systems Using Observer Design Method	Bi Weiping, Zhang Junfeng, Liu Jinjin (23)
Upper Estimate on Multifractal Spectrum of Local Dimension for Recurrence Time	Yan Zhenzhen, Chen Ercai, Li Lei (29)
Strong Markov Properties for Two-Parameter Stochastic Process	Du Baojian, He Chaobing, Yuan Fushun (35)
Finite Algorithms for Computing Weighted Group Inverses of Rectangular Matrices	Hu Zhenying, Chen Xin, Zhang Hongchao (39)
Semiclassical Wave Function for a Weak Island Chain in Regular Region	Yang Shuangbo (43)
Giant Room-temperature Magneto-capacitance in Laminate Composites of Terfenol-D/Pb(Zr,Ti)O ₃ at Resonance Frequency	Wang Wei, Tang Jianguo (48)
Study on Characteristics of Resonant Frequency of Ultrasonic Scalpel Transducer	Luo Jun, Ruan Cheng, Xu Yinlin (52)
Monte Carlo Simulation of Thermal Conduction in One-Dimensional Doped-Chains	Yang Li, Pan Liang, Zhu Jiali, Yang Yu, Liu Hong (55)
Synthesis and Luminescent Properties of Two New Ir(Ⅲ) Complexes Based on Benzimidazole Derivatives	Xu Zhi'an, Jiang Xiaoqing, Sun Peipei (59)
Study of Sensitized TiO ₂ on Photocatalytic Degradation Paths of Rhodamine B by Spectroscopy Methods	Liu Hailong, Zhou Yan, Huang Heyong, Feng Yuying, Wang Xinghe (64)
Photocatalytic Degradation of Phenol by I-TiO ₂ Supported on Activated Carbon	Shi Qian, Wang Yuping, Peng Panying (68)
Preparation and Characterization of Amorphous Nateglinide	Ma Chao, Li Gang, Zhu Kan, Cheng Xiaoqing (74)
Declines of Farmland and Pond Frogs in Thirteen Provinces in China	Dai Jianhua, Ma Jiayue, Xu Linglin, Wei Yongqiang, Gu Yifan, Zhou Kaiya (80)
Study on Curative Effect of Enrofloxacin Compound With Pu Powder to Bacterial Septicemia of <i>Carassius Auratus Gibelio</i>	Wang Xida, Chen Hui, Sha Sha, Liu Xunmeng, Wu Guorong (86)
Optimization of Hybridization Conditions and Specific Verification for 16S rRNA Oligonucleotide Probe of Endophytic Bacteria Strain XC32	Liu Jia, Wang Meixia, Yan Shuzhen, Chen Shuanglin (89)
Phylogenetic Relationship of Terrestrial and Aquatic Spiroplasmas Inferred From Their 16S rRNA and 16S-23S rRNA Intergenic Spacer Region Sequences	Bi Keran, Gu Wei, Wang Wen, Yan Binlun, Zhang Xiaojun (96)
Research Progress of Bioremediation Technology of Cadmium Polluted Soil	Xu Liangjiang, Zhang Mingli, Yang Hao (102)
Delimiting the Range of the Special Conservation Area of Islands in the Sea Based on the Protecting Object	Wang Zaifeng, Xu Min, Bao Rong (107)
Optimized Map Representing Methods Oriented Police Affairs GIS—Take Police Affairs GIS of Nanjing for Example	Qi Lin, Shen Jie, Zhang Hong, Fan Jajia (114)
Assessment of Urban Wetland Ecological Security at Differing Scales	Hao Jingfeng, Liu Hongyu, Hu Hebing, An Jing (119)

Chief Editor: Chen Lingfu, **Deputy Chief Editors:** Lu Bingxin, Sun Dequan, **Executive Editor:** Ding Rong