

华侨大学学报  
(自然科学版)

2011年5月

总第119期

第32卷第3期

目 次

综合述评

轴棱锥产生局域空心光束的几种新技术

..... 张前安, 吴逢铁, 马亮 (241)

学术论文

琼脂凝胶注模成形不锈钢粉末浆料与生坯的性能

..... 王霏, 江开勇 (247)

采用 AR 模型双谱估计的概率筛分效率

..... 汤琴, 黄宜坚 (253)

应变能恒等法在叶片疲劳寿命分析中的应用

..... 吕辉停, 郝艳华, 黄致建 (258)

圆环定子驻波型步进超声波电机的设计

..... 姜晓玉, 洪尚任, 王国炎 (263)

嵌入式微处理器的沥青砂浆车液压调平系统的设计

..... 蔡钟山, 张认成, 杨建红 (266)

部分相干圆偏振涡旋光束的深焦

..... 陈宝算, 蒲继雄 (269)

一种微机保护电流传感器的设计及性能分析

..... 卢小芬, 周有庆, 彭春燕, 等 (276)

低功耗 H. 264 Baseline 解码 IP 核设计

..... 朱坤旺, 傅文渊, 凌朝东 (280)

双荧光自组装多层膜的构建及其性能

..... 胡萃, 孙向英, 柯培林 (284)

高岭石-DMSO 插层复合物的制备与表征

..... 张敬阳, 叶玲, 张昕 (288)

- 加速溶剂萃取-高效液相色谱法测定五氯苯酚  
..... 李琳, 薛秀玲, 连小彬 (292)
- 短小芽孢杆菌木聚糖酶的同源建模及分子动力学模拟  
..... 葛慧华, 李红春, 张光亚 (296)
- 阿魏酸酯酶产生菌的筛选及产酶条件的优化  
..... 邓轶韬, 李夏兰, 陈宗香, 等 (300)
- 超临界 CO<sub>2</sub> 萃取柏子仁油的  $\beta$ -环糊精包合工艺  
..... 汤须崇, 肖美添, 叶静 (304)
- 3 种浮床植物系统对富营养化水体中藻类的抑制效果  
..... 周真明, 梅玉龙, 叶青, 等 (309)
- 弹性能损失的地震损伤评价模型  
..... 郑济坤, 王全凤 (313)
- 薄壁 U 型钢混凝土梁火灾-结构耦合的 ANSYS 分析  
..... 高轩能, 黄文欢, 张惠华 (317)
- 高强混凝土柱变形-耗能损伤模型的参数确定  
..... 林煌斌, 王全凤, 刘良林 (322)
- 采用统一强度理论的锚喷支护围岩弹塑性统一解  
..... 郑强, 林从谋, 孟凡兵 (326)
- 泉州近代洋楼民居湿热气候环境适应性  
..... 薛佳薇, 陈志宏 (332)
- 用 QCEA 优化的 RBF 神经网络及其在股市预测的应用  
..... 张新红, 雷素娟 (338)
- 一类 Nehari 函数族的拟共形延拓与系数偏差  
..... 谢志春, 黄心中 (343)
- 计算非负不可约矩阵谱半径的新算法  
..... 宋海洲, 徐强, 田朝薇 (348)
- 无穷直线上的 Hilbert 边值问题解的稳定性  
..... 王荟敬, 林峰 (352)
- 可正定化矩阵的判别定理  
..... 陈恒新 (356)

---

期刊基本参数: CN 35-1079/N \* 1980 \* b \* A4 \* 120 \* zh \* P \* ¥8.00 \* 1 000 \* 26 \* 2011-05 \* n

JOURNAL OF HUAQIAO UNIVERSITY  
(NATURAL SCIENCE)

Vol. 32 No. 3

Sum. 119

May. 2011

CONTENTS

COMPREHENSIVE REVIEW

New Techniques for Generating Bottle Beam in Recent Years

..... ZHANG Qian-an, WU Feng-tie, MA Liang (241)

ACADEMIC PAPERS

Properties of Slurry and Green Body for Gel Casting of Stainless Steel Powder by Agar

..... WANG Fei, JIANG Kai-yong (247)

Analysis of Probability Screen Efficiency Using Bispectrum Estimation Based on  
AR Model

..... TANG Qin, HUANG Yi-jian (253)

Strain Energy Equivalence Method for Blade's Strain Fatigue Life Analysis

..... LÜ Hui-ting, HAO Yan-hua, HUANG Zhi-jian (258)

Design on Standing Wave Type Ultrasonic Motor with Circle Stator

..... JIANG Xiao-yu, HONG Shang-ren, WANG Guo-yan (263)

Design of Hydraulic Leveling System in Asphalt Mortar Vehicle Based on Embedded  
Microprocessor

..... CAI Zhong-shan, ZHANG Ren-cheng, YANG Jian-hong (266)

Tight Focusing of Partially Coherent and Circularly Polarized Vortex Beams

..... CHEN Bao-suan, PU Ji-xiong (269)

Design and Performance of a Novel Current Sensor for Microprocessor-Based Relay  
Protection

..... LU Xiao-fen, ZHOU You-qing, PENG Chun-yan, et al (276)

Design of Low-Power H. 264 Baseline Decoder IP Core

..... ZHU Kun-wang, FU Wen-yan, LING Chao-dong (280)

Preparation and Characterization Dual Fluorescence Self-Assembled Multilayer Film

..... HU Ping, SUN Xiang-ying, KE Pei-lin (284)

Development of Kaolinite-DMSO Intercalation Composites

..... ZHANG Jing-yang, YE Ling, ZHANG Xin (288)

Determination of Pentachlorophenol in Leather by Accelerated Solvent Extraction and  
HPLC

..... LI Lin, XUE Xiu-ling, LIAN Xiao-bin (292)

- Homology Modeling and Molecular Dynamic Simulation of Xylanase from *Bacillus pumilus* ..... GE Hui-hua, LI Hong-chun, ZHANG Guang-ya (296)
- Screening of Feruloyl Esterases Producing Strain and Optimization of the Enzyme Production ..... DENG Yi-tao, LI Xia-lan, CHEN Zong-xiang, et al (300)
- Preparation of  $\beta$ -Cyclodextrin Inclusion Complex for Seman Platycladi Oil Extracted from CO<sub>2</sub> Supercritical Fluid ..... TANG Xu-chong, XIAO Mei-tian, YE Jing (304)
- Study on Algae Inhibitory Effects by Three Floating-Bed Plant Systems in Eutrophic Water ..... ZHOU Zhen-ming, MEI Yu-long, YE Qing, et al (309)
- Seismic Damage Assessment Model Based on Loss of Elastic Energy ..... ZHENG Ji-kun, WANG Quan-feng (313)
- ANSYS Simulation for Fire-Structure Coupling of Thin-Walled U-Section Steel-Concrete Beam ..... GAO Xuan-neng, HUANG Wen-huan, ZHANG Hui-hua (317)
- Analysis of Deformation-Hysteretic Energy Dissipation Damage Model of High-Strength Reinforced Concrete Columns ..... LIN Huang-bin, WANG Quan-feng, LIU Liang-lin (322)
- Elastic-Plastic Unified Solution of Shotcrete-Anchorage Support Surrounding Rock Based on Unified Strength Theory ..... ZHENG Qiang, LIN Cong-mou, MENG Fan-bing (326)
- Analysis of Hot-Humid Climate and Environment Adaptability about the Modern Yang-Lou in Quanzhou City ..... XUE Jia-wei, CHEN Zhi-hong (332)
- Optimized RBF Neural Network and Application in Stock Market Based on Quantum Clonal ..... ZHANG Xin-hong, LEI Su-juan (338)
- On the Quasiconformal Extensions and Coefficients Distortion for a Nehari Class ..... XIE Zhi-chun, HUANG Xin-zhong (343)
- A New Algorithm for the Spectral Radius of Non-Negative Irreducible Matrix ..... SONG Hai-zhou, XU Qiang, TIAN Zhao-wei (348)
- Stability of the Solution of Hilbert Boundary Value Problem on Infinite Line ..... WANG Hui-jing, LIN Feng (352)
- Criteria theorem of Positive-Definable Matrix ..... CHEN Heng-xin (356)

---

**Serial Parameters:** CN 35-1079/N \* 1980 \* b \* A4 \* 120 \* zh \* P \* ¥8.00 \* 1 000 \* 26 \* 2011-05 \* n