



Ei Compendex核心期刊
RCCSE中国权威学术期刊

ISSN 1005-3026
CN 21-1344/T
CODEN DDXKEZ

东北大学学报

自然科学版

Vol.34 No.10



JOURNAL OF
NORTHEASTERN UNIVERSITY
NATURAL SCIENCE

ISSN 1005-3026



9 771005 302017

10>

中国·沈阳
Shenyang China

万方数据

10
2013

东北大学学报(自然科学版)

Dongbei Daxue Xuebao (Ziran Kexue Ban)

第34卷 第10期 (总第277期) 2013年10月

目 次

信息与控制

- 直流变换器的区域极点配置鲁棒PID控制算法 贤燕华, 冯久超(1369)
- 基于多表观模型的鲁棒跟踪算法 齐苑辰, 吴成东, 陈东岳, 于晓升(1374)
- 防边界收缩的无线传感器网络节点轻量级调度算法 张冬青, 温涛, 郭权, 宋晓莹(1378)
- 基于简化可视图的环境建模方法 张琦, 马家辰, 马立勇(1383)
- 多资源约束批量拆卸优化模型及算法 郭希旺, 刘士新(1387)
- 重特大事故人员疏散算法设计及系统实现 金曦, 姜治宇, 张雪, 邓庆绪(1392)
- DBLP 科研合作网络的建模与拓扑特征分析 贾思媛, 许勇, 赵海, 艾均(1396)

材料与冶金

- 微量 Ga 对电容器阳极用铝箔组织及比电容的影响 左宏, 李新芳, 刘春明(1400)
- TM210A 钢冶炼工艺对其组织和性能的影响 赵肃武, 刘春明(1404)
- Ce, Sm 联合掺杂 TiO₂ 薄膜制备及其电致变色特性 牛微, 毕孝国, 孙旭东(1409)
- 退火方式对含硼冷轧深冲搪瓷钢组织性能的影响 董福涛, 杜林秀, 刘相华, 薛飞(1412)
- 氧化铁皮对低碳钢大气腐蚀行为的影响 何永全, 孙彬, 刘振宇, 李俊(1416)
- 轧件内部裂纹的模拟实验方法与愈合行为 刘相华, 艾峥嵘, 喻海良(1420)
- 热轧带钢精轧过程考虑相变的轧制力模型 李维刚, 陈水宣, 刘相华(1425)
- 铁氧化物气固还原反应的优势区图 张伟, 张菊花, 李强, 邹宗树(1430)
- 2CaO·SiO₂-3CaO·P₂O₅ 固溶体形成机理 苏畅, 于景坤, 王洪章(1434)
- 1995~2010 年中国钢铁工业能源消耗影响因素分析 蔡九菊, 叶竹, 孙文强(1438)
- 酸浸及萃取对高铁铝土矿中有价元素分离特性的影响 吕国志, 张延安, 赵爱春, 王红星(1442)

机械工程

- 新型无摆动双机驱动振动机自同步理论 李鹤, 刘丹, 李叶, 闻邦椿(1446)
- 行星齿轮系统弯扭耦合振动的增量谐波平衡法 姚红良, 许琦, 茅列前, 闻邦椿(1451)
- 考虑介电常数影响的 GMA 内部磁场特性分析 李东, 袁惠群, 李智军, 李莹(1456)
- 基于 ABC 算法的航空发动机管路自动优化布局 张禹, 白晓兰, 武芙蓉(1461)
- 数控铣削加工中心加工精度分布规律 范智广, 巩亚东, 王超, 吕威(1465)
- Eu-Ru 共掺 NiO-SnO₂ 复合纳米粒子薄膜的阻变特性 李建昌, 王玉磊, 徐彬, 侯雪艳(1469)

资源与土木工程

- 超盐体系下铜铁氰络合物的去除及机理 李明阳, 魏德洲, 刘文刚, 沈岩柏(1473)
- 煤矸石酸溶法制得聚合氯化铝铁钙的形态 何丽莉, 徐新阳(1477)
- 活性炭对氧化亚铁硫杆菌氧化活性的影响 冯雅丽, 程玉龙, 李浩然, 周宇照(1481)
- 节理岩体中隧洞围岩的损伤破坏机理 马天辉, 张文东, 徐涛(1485)
- 车水平刚度对开合屋盖结构动力性能的影响 车在根, 栾海强, 刘国跃, 范重(1490)
- 生物降解下垃圾填埋场的边坡稳定性 邱纲, 梁力, 孙洪军(1495)
- 陶瓷的活性评价及其对混凝土抗压强度的影响 程云虹, 黄菲, 李光禄, 秦志生(1499)

管理科学

- 制度距离、信息不对称和国际并购绩效——基于中国上市公司并购案的实证研究 杜晓君, 朱园园(1504)
- 知识联盟中激励协同有效性评价 孙新波, 谢远锐, 钱雨(1508)

生物工程

- 基于肺部动态增强 MR 影像的药物动力学定量分析 钟毅, 李智勇, 胡伽尼, 康雁(1512)

数学

- 三维 Minkowski 空间中的仿射平移曲面 袁媛, 马龙彪, 刘会立(1517)

期刊基本参数: CN21-1344/T * 1955 * m * A4 * 152 * zh * P * ¥10.00 * 1500 * 35 * 2013-10

本期责任编辑: 安碧丽

JOURNAL OF NORTHEASTERN UNIVERSITY

(NATURAL SCIENCE)

Volume 34 Number 10 (Sum 277) September 2013

CONTENTS

Information & Control

- Regional Pole Assignment Robust PID Control Algorithm for DC-DC Converter XIAN Yan-hua, FENG Jiu-chao(1369)
- Robust Tracking Algorithm Based on Multiple Appearance Models QI Yuan-chen, WU Cheng-dong, CHEN Dong-yue, YU Xiao-sheng(1374)
- Nodes Lightweight Scheduling Algorithm of Preventing Boundary Contraction in Wireless Sensor Network ZHANG Dong-qing, WEN Tao, GUO Quan, SONG Xiao-ying(1378)
- Environment Modeling Approach Based on Simplified Visibility Graph ZHANG Qi, MA Jia-chen, MA Li-yong(1383)
- Optimization Model and Algorithm for Solving Lot-Sizing Disassembly with Multi-resource Constraint GUO Xi-wang, LIU Shi-xin(1387)
- Evacuation Algorithm Design and System Implementation in Major Accident JIN Xi, JIANG Zhi-yu, ZHANG Xue, DENG Qing-xu(1392)
- Modeling and Topological Features Analysis of DBLP Coauthor Network JIA Si-yuan, XU Yong, ZHAO Hai, AI Jun(1396)

Materials & Metallurgy

- Effects of Trace Ga on Microstructure and Specific Capacitance of Aluminum Foils Used for Capacitor Anodes ZUO Hong, LI Xin-fang, LIU Chun-ming(1400)
- Effects of Smelting Process on Microstructure and Properties of TM210A Steels ZHAO Su-wu, LIU Chun-ming(1404)
- Preparation and Electrochromic Properties of TiO₂ Films Doped Ce and Sm NIU Wei, BI Xiao-guo, SUN Xu-dong(1409)
- Effect of Annealing Modes on Microstructure and Properties of Boron Containing Cold-Rolled Deep-Drawing Enamel Steel DONG Fu-tao, DU Lin-xiu, LIU Xiang-hua, XUE Fei(1412)
- Effects of Oxide Scale on Industrial Atmosphere Corrosion of Low Carbon Steels HE Yong-quan, SUN Bin, LIU Zhen-yu, LI Jun(1416)
- Experiment Method to Simulate Internal Cracks and Its Healing Behavior of Rolled Pieces LIU Xiang-hua, AI Zheng-rong, YU Hai-liang(1420)
- Rolling Force Model Considering Phase Transformation for Hot Strips During Finishing Process LI Wei-gang, CHEN Shui-xuan, LIU Xiang-hua(1425)
- Predominance Area Diagram for Gas-Solid Reduction Reactions of Iron Oxides ZHANG Wei, ZHANG Ju-hua, LI Qiang, ZOU Zong-shu(1430)
- Formation Mechanism of 2CaO·SiO₂-3CaO·P₂O₅ Solid Solution SU Chang, YU Jing-kun, WANG Hong-zhang(1434)
- Analysis of Influence Factors on Energy Consumption in Chinese Steel Industry from 1995 to 2010 CAI Jiu-ju, YE Zhu, SUN Wen-qiang(1438)
- Effects of Acid-Leaching and Extraction on Separation Characteristics of Valuable Elements from High-Iron Bauxite LYU Guo-zhi, ZHANG Ting-an, ZHAO Ai-chun, WANG Hong-xing(1442)

Mechanical Engineering

- Self-Synchronous Theory of Novel No-Swing Vibrating Mechanism Driven by Two Motors LI He, LIU Dan, LI Ye, WEN Bang-chun(1446)
- Incremental Harmonic Balance Method for Coupled Bending and Torsional Vibration in Planetary Gear System YAO Hong-liang, XU Qi, MAO Lie-qian, WEN Bang-chun(1451)
- Inner Magnetic Field Characteristics of Giant Magnetostrictive Actuator Considering Permittivity Effects LI Dong, YUAN Hui-qun, LI Zhi-jun, LI Ying(1456)
- Automatic Optimization of Aero-Engine Pipe-Routing Layout Based on ABC Algorithm ZHANG Yu, BAI Xiao-lan, WU Peng-rui(1461)
- Machining Accuracy Distribution Regularities of CNC Milling Machining Center FAN Zhi-guang, GONG Ya-dong, WANG Chao, LYU Wei(1465)
- Resistive Switching of Eu-Ru Co-doped NiO-SnO₂ Composite Nanoparticle Thin Films LI Jian-chang, WANG Yu-lei, XU Bin, HOU Xue-yan(1469)

Resources & Civil Engineering

- Elimination of Copper and Iron Cyanide Complexes and Mechanism in Hypersaline System LI Ming-yang, WEI De-zhou, LIU Wen-gang, SHEN Yan-bai(1473)
- Morphology of PAFCC Prepared by Coal Gangue Leaching Method HE Li-li, XU Xin-yang(1477)
- Effect of Activated Carbon on Oxidative Activity in Growth of *Thiobacillusferrooxidans* FENG Ya-li, CHENG Yu-long, LI Hao-ran, ZHOU Yu-zhao(1481)
- Damage and Failure Mechanism of Tunnels in Jointed Rock Mass MA Tian-hui, ZHANG Wen-dong, XU Tao(1485)
- Effects of Trolley Horizontal Stiffness on Structure Dynamic Performance of Retractable Roof MU Zai-gen, LUAN Hai-qiang, LIU Guo-yue, FAN Zhong(1490)
- Slope Stability of Landfill Under Biodegradation QIU Gang, LIANG Li, SUN Hong-jun(1495)
- Evaluation on Activity of Ceramic Polishing Powder and Its Effect on Compressive Strength of Concrete CHENG Yun-hong, HUANG Fei, LI Guang-lu, QIN Zhi-sheng(1499)

Management Science

- Institutional Distance, Information Asymmetry and International M&A Performance: Empirical Evidence from Chinese Listed Companies DU Xiao-jun, ZHU Yuan-yuan(1504)
- Effectiveness of Incentive Synergy in Knowledge Alliance SUN Xin-bo, XIE Yuan-rui, QIAN Yu(1508)

Biologic Engineering

- Quantitative Analysis of Pharmacokinetic Parameters Using Clinical Lung Dynamic Contrast-Enhanced MR Image ZHONG Yi, LI Zhi-yong, HU Jia-ni, KANG Ya(1512)

Mathematics

- Affine Translation Surfaces in Minkowski 3D-Space YUAN Yuan, MA Long-biao, LIU Hui-li(1517)

Serial parameters: CN21 - 1344/T * 1955 * m * A4 * 152 * zh * P * ¥ 10.00 * 1500 * 35 * 2013 - 10

Editor of this issue: AN Bi-li