

ISSN 0258-2724
CN51-1277/U
CODEN XJDXEW

西南交通大学学报

JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY

2012年8月 第47卷
Vol. 47 Aug. 2012



Ei Compendex 收录期刊

中文核心期刊

中国科技论文统计源期刊

中国科学引文数据库来源期刊

德国数学文摘(Zbl MATH)收录期刊

万方数据



4
2012
中国 成都

西南交通大学学报

第47卷 第4期 2012年8月

目 次

环境激励下钢筋混凝土拱桥模态参数识别	蒲黔辉,秦世强,施洲,等	539
基于 DEA 的铁路桥梁风屏障防风效果评价	向活跃,李永乐,廖海黎	546
悬索桥锚跨索股索力的精确计算与调整方法	张兴标,沈锐利,唐茂林,等	551
汶川地震桥梁易损性分析	陈力波,郑凯锋,庄卫林,等	558
地震滑坡启程动力学机理	顾成壮,胡卸文,罗刚,等	567
云冈石窟第 19 窟西耳窟地震动力响应	孙博,彭宁波,王逢睿	573
高液限土最佳掺砂比的确定	程涛,洪宝宁,刘鑫,等	580
单向流作用下淤泥质黏土起动试验研究	杨兵,蔡瑞卿,唐驰,等	586
既有线路基提速改造健康状态综合评价方法	方焘,刘新荣,耿大新,等	591
基于组合预测模型的轮轨力连续测试研究	李奕璠,林建辉,刘建新	597
基于轮轨接触参数的固定辙叉设计方法	曹洋,王平,赵卫华	605
道岔动力参数设计法及其在转辙器设计中的应用	刘哲,王平,陈嵘,等	611
X 射线衍射法测试高速列车车体铝合金残余应力	苟国庆,黄楠,陈辉,等	618
工程车辆散热器模块散热性能数值仿真	刘佳鑫,秦四成,徐振元,等	623
角接触球轴承微动磨损行为	王思明,高宏力,许明恒	629
回热器对跨临界 CO ₂ 热泵系统性能的影响	金东旭,王平,小山繁,等	634
非支配排序遗传算法的动压轴承形状多目标优化	庞晓平,陈进	639
高频谐波电场下电缆终端过热点的形成机理	周凯,李旭涛,黄友聪,等	646
基于差异时效的服务评价模型	印桂生,崔晓晖,马志强,等	652
基于三维高斯混合码本模型的运动目标检测算法	黄进,金炜东,秦娜	662
抵御单粒子多位翻转的系统自恢复技术	包海超,杨根庆,张宇宁	669
视频哈希的安全性分析	刘丽,王永庆	675
基于多目标优化的航空器离场时隙控制方法	王飞,穆巍炜,董健康	680
不确定强对流天气下动态改航路径规划	孟令航,徐肖豪,李善梅,等	686
相场法模拟悬浮熔融硅液滴内部对流及自由界面变形现象	石万元,张凤超,田小红,等	692
敷设聚脲的吸声模型改进粒子群算法优化	张文成,周穗华,瞿洋	698
基于区间概率偏好的随机格序群决策方法	郭春香,郭强,郭耀煌	705
决策信息为区间数的多属性群决策方法	尤后兴,林杰	712

[期刊基本参数] CN 51-1277/U * 1954 * b * A4 * 180 * zh * P * ¥12.00 * 1500 * 28 * 2012-08

[本期责任编辑] 秦萍玲

JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY

Vol. 47 No. 4 Aug. 2012

CONTENTS

Modal Parameter Identification of Reinforced Concrete Arch Bridge under Ambient Excitation	PU Qianhui, QIN Shiqiang, SHI Zhou, et al	539
DEA-Based Evaluation of Wind Shielding Effect of Wind Barrier for Railway Bridges	XIANG Huoyue, LI Yongle, LIAO Haili	546
Accurate Calculation and Adjustment Methods for Cable Forces of Anchor-Span Strands for Suspension Bridges	ZHANG Xingbiao, SHEN Ruili, TANG Maolin, et al	551
Analytical Investigation of Bridge Seismic Vulnerability in Wenchuan Earthquake	CHEN Libo, ZHENG Kaifeng, ZHUANG Weilin, et al	558
Setting-out Mechanism of Landslide Induced by Earthquake	GU Chengzhuang, HU Xiewen, LUO Gang, et al	567
Seismic Dynamic Responses of No. 19 Grotto's West Side Cave of Yungang Grottoes	SUN Bo, PENG Ningbo, WANG Fengrui	573
Determination of Optimal Sand Content for Improving High Liquid Limit Soil	CHENG Tao, HONG Baoning, LIU Xin, et al	580
Experimental Research on Onset of Muddy Clay Exposed to Unidirectional Flow	YANG Bing, CAI Ruiqing, TANG Chi, et al	586
Comprehensive Assessment Method for Health Status of Subgrade in Existing Line Speed-Raising Reconstruction ...	FANG Tao, LIU Xinrong, GENG Daxin, et al	591
Wheel-Rail Force Continuous Measurement Based on Combinational Forecast Model	LI Yifan, LIN Jianhui, LIU Jianxin	597
Design Method for Rigid Frog Based on Wheel/Rail Contact Parameters	CAO Yang, WANG Ping, ZHAO Weihua	605
Dynamic Parameter Design Method for Turnout and Its Application in Switch Design	LIU Zhe, WANG Ping, CHEN Rong, et al	611
Detection of Residual Stress in Aluminum Alloy Carbody of High-Speed Train Using X-ray Diffraction Technology	GOU Guoqing, HUANG Nan, CHEN Hui, et al	618
Numerical Simulation of Heat Exchange Performance of Radiator Module in Construction Vehicles	LIU Jiaxin, QIN Sicheng, XU Zhenyuan, et al	623
Fretting Wear Behavior of Angular Contact Ball Bearings ...	WANG Siming, GAO Hongli, XU Mingheng	629
Effects of Internal Heat Exchanger on Performance of Transcritical CO ₂ Heat Pump System	JIN Dongxu, WANG Ping, KOYAMA Shigeru, et al	634
Multi-objective Shape Optimization of Hydrodynamic Journal Bearings Using Non-dominated Sorting Genetic Algorithm II	PANG Xiaoping, CHEN Jin	639
Formation Mechanism of Hot Spot in Stress Control		
Cable Terminations under Harmonic Voltages	ZHOU Kai, LI Xutao, HUANG Youcong, et al	646
Web Services Evaluation Model Based on Variant Time Utility	YIN Guisheng, CUI Xiaohui, MA Zhiqiang, et al	652
Moving Objects Detection Algorithm Based on Three-Dimensional Gaussian Mixture Codebook Model	HUANG Jin, JIN Weidong, QIN Na	662
On-Board Software Self-recovery Technique for Defending MBU Effect	BAO Haichao, YANG Genqing, ZHANG Yuning	669
Security Analysis of Video Hashing	LIU Li, WANG Yongqing	675
Aircraft Departure Slot Control Method Based on Multi-objective Optimization	WANG Fei, MU Weiwei, DONG Jiankang	680
Dynamic Reroute Planning under Uncertain Severe Convective Weather	MENG Linghang, XU Xiaohao, LI Shanmei, et al	686
Phase Field Modeling of Internal Convection and Free Interface Deformation of Levitated Droplet of Molten Silicon	SHI Wanyuan, ZHANG Fengchao, TIAN Xiaohong, et al	692
Improved Particle Swarm Optimization Algorithm for Sound Absorption Model with Polyurea Coating	ZHANG Wencheng, ZHOU Suihua, QU Yang	698
Random Lattice Order Group Decision-Making Based on Interval Probability Preferences	GUO Chunxiang, GUO Qiang, GUO Yaohuang	705
Multi-attribute Group Decision-Making Method for Interval Number Decision Information	YOU Houxing, LIN Jie	712