

西南交通大学学报

第 54 卷 第 4 期 2019 年 8 月

目 次

基于状态机的燃料电池混合动力系统控制策略·····	陈维荣, 燕 雨, 李 奇	663
基于改进人工蜂群算法的轮毂电机多目标优化·····	张河山, 邓兆祥, 妥吉英, 等	671
电极间隙对介质阻挡放电特性的影响·····	李春茂, 董 磊, 彭开晟, 等	679
基于高光谱成像技术的绝缘子污秽度预测·····	李恒超, 谭 蓓, 杨 刚, 等	686
厚边 U 肋正交异性钢桥面疲劳性能·····	郑凯峰, 衡俊霖, 何小军, 等	694
波形钢腹板组合梁弯曲变形的三角级数解·····	叶华文, 王力武, 张 庆, 等	701
莫-喀高速铁路简支箱梁竖向下限基频研究·····	宋晓东, 邱晓为, 李小珍, 等	709
桥梁截面形式对轨道交通高架噪声的影响·····	顾民杰, 励吾千, 李 奇	715
宽幅分体箱梁涡振性能及其抑振措施·····	马存明, 王俊鑫, 罗 楠, 等	724
脉冲型地震动对 CFST 拱桥抗震性能的影响分析·····	李 晰, 何 澜, 李 倩, 等	731
波浪荷载作用下各向异性海床瞬态液化研究·····	段伦良, 郑东生, 王少华, 等	741
超高层建筑气动噪声场的大涡模拟·····	祝志文, 邓燕华	748
昔格达地层隧道围岩的失稳特征及变形控制工法·····	王志杰, 周 平, 杨建民, 等	757
不同变位模式黏土非极限被动土压力试验研究·····	夏军武, 窦国涛, 苏 琼, 等	769
粗颗粒含量对川西混合土抗剪强度的影响·····	崔 凯, 苏 磊	778
干湿循环对 CA 砂浆质量与变形的影响·····	周锡玲, 谢友均, 郑克仁, 等	786
再生混凝土粗骨料的质量分级优选评价·····	李福海, 靳贺松, 余泳江, 等	793
基于 CPTU 状态参数的无黏性土最大剪切模量评价方法·····	段 伟, 蔡国军, 刘松玉	801
柔性防护系统环形拦截网分区等代模型·····	赵雅娜, 余志祥, 赵世春	808
计算网格对列车空气动力学不确定性的影响·····	李 田, 秦 登, 安 超, 等	816
基于区间数距离的铁路线路方案决策模型与方法·····	梁 东, 李远富, 樊 敏, 等	823
基于多节拍组合的城际铁路列车运行图优化·····	周文梁, 李 鹏, 田俊丽, 等	831
集装箱码头泊位-堆场-闸口的周期协同分配·····	韩笑乐, 鞠留红, 栾 晨, 等	840
负重型外骨骼机器人液压阀块流道的流场分析及优化·····	王海波, 范曙远, 张 龙	848
金属成形数值模拟算法及软件开发·····	周洋靖, 冯志强, 宁 坡, 等	855
基于深度学习的复合神经网络机场信号检测框架·····	侯 进, 吕志良, 徐 茂, 等	863
基于刚分簇与鸡群优化的深井无线传感网络定位算法·····	余修武, 周利兴, 余齐豪, 等	870
促聚合与生物矿化改善轨道板用钠水玻璃性能·····	李茂红, 潘 章, 凌晨博, 等	879
《西南交通大学学报》投稿须知·····		839

[期刊基本参数] CN 51 - 1277/U * 1954 * b * A4 * 222* zh * P * ¥12.00 * 1000 * 28 * 2019-08
[本期责任编辑] 唐 晴

JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY

Vol. 54 No.4 August. 2019

CONTENTS

Control Strategy Based on State Machine for Fuel Cell Hybrid Power System.....	CHENG Weirong, YAN Yu, LI Qi	663
Multi-Objective Optimum Design for In-Wheel Motor Based on Improved Artificial Bee Colony Algorithm	ZHAGN Heishan, DENG Zhaoxiang, TUO Jiyong, et al	671
Influence of Electrode Gap on Characteristics of Dielectric Barrier Discharge	LI Chunmao, DONG Lei, PENG Kaisheng, et al	679
Contamination Degree Prediction of Insulators Based on Hyperspectral Imaging Technology	LI Hengchao, TAN Bei, YANG Gang, et al	686
Fatigue Performance of Orthotropic Steel Decks with Thickened Edge U-Ribs.....	ZHENG Kaifeng, HENG Junlin, HE Xiaojun, et al	694
Trigonometric Series Solution of Bending Deformation for Composite Beam with Steel Corrugated Webs	YE Huawen, WANG Liwu, ZGANG Qing, et al	701
Lower Vertical Frequency Limit for Simply Supported Box-Girder on Moscow-Kazan High-Speed Railway Line	SONG Xiao Dong, QIU Xiaowei, LI Xiaozhen, et al	709
Influence of Section Types on Noise from Elevated Rail Transit Lines	GU Minjie, LI Wuqian, LI Qi	715
Vortex-Induced Vibration Performance and Control Measures of Wide Twin-Box Girder	MA Cunming, ZWANG Junxin, LUO Nan, et al	724
Effect of Pule-Like Ground Motion on Seismic Performance of Concrete-Filled Steel Tubular Arch Bridge	LI Xi, HE Lan, LI Qian, et al	731
Numerical Study on Wave-Induced Oscillatory Liquefaction in Anisotropic Seabed	DUAN Lunliang, ZHENG Dongsheng, WANG Shaohua, et al	741
Large Eddy Simulation of Aerodynamic Noise Field Around Super High-Rise Buildings	ZHU Zhiwen, DENG Yanhua	748
Instability Properties and Deformation Control Methods of Rocks Surrounding Xigeda Strata	WANG Zhijie, ZHOU Ping, YANG Jianmin, et al	757
Experiment Study on Non-limit Passive Earth Pressure of Clay under Different Displacement Modes	XIA Junwu, DOU Guotao, SU Qiong, et al	769
Effect of Coarse Grain Content on Shear Strength of Mixed Soil in Western Sichuan	CUI Kai, SU Lei	778
Effect of Wetting-Drying Cycles on Mass and Deformation of Cement Emulsified Asphalt Mortar	ZHOU Xiling, XIE Youjun, ZHENG Keren, et al	786
Optimization Evaluation of Quality Classification of Concrete with Recycled Coarse Aggregate.....	LI Fuhai, JIN Hesong, YU Yongjiang, et al	793
Evaluation Method of Maximum Shear Modulus of Cohesionless Soil Based on State Parameters from Piezocone Penetration Test.....	DUAN Wei, CAI Guojun, LIU Songyu	801
Ring-Net Subdivision Equivalent Model of Flexible Protection System.....	ZHAO Yana, YU Zhixiang, ZHAO Shichun	808
Effect of Computational Grid on Uncertainty in Train Aerodynamics	LI Tian, QIN Deng, An Chao, et al	816
Decision Making Model and Method Based on Distance Measure Between Interval Numbers in Railway Location	LIANG Dong, LI Yuanfu, FAN Min, et al	823
Optimization of Train Timetable for Intercity Railway Based on Coordinated Operation of Multi-periodic Trains	ZHOU Wenliang, LI Peng, TIAN Junli, et al	831
Periodic and Collaborative Allocation of Berth-Yard-Gate Resources at Container Terminals.....	HAN Xiaole, JU Liuhong, LUAN Chen, et al	840
Flow Field Analysis and Optimization for Internal Channel of Hydraulic Manifold Block in Lower Extremity Exoskeleton Robot	WANG Haibo, FAN Shuyuan, ZHANG Long	848
Numerical Algorithm and Software Development for Metal Forming	ZHOU Yangjing, FENG Zhiqiang, NING Po, et al	855
Combined Neural Networks Based on Deep Learning for Signal Detection in Aeronautical Communications	HOU Jin, LÜ Zhiliang, XU Mao, et al	863
Localization Algorithm for Mine Wireless Sensor Network Based on Rigid Cluster and Chicken Swarm Optimization	YU Xiuwu, ZHOU Lixing, YU Qihao, et al	870
Improving the Performance of Sodium Silicate for Track Slab by Promoting Polymerization and Biomineralization.....	LI Maohong, PAN Zhang, LING Chenbo, et al	879