

目 次

• 综 述 •

非常规交叉口设计研究现状与展望..... 安 实,宋 浪,王 健,王雅晴,胡晓伟 (1)

内燃机活塞-缸套系统减摩抗磨研究进展..... 吕廷军,康建雄,张永芳,罗宏博 (21)

面向 eVTOL 航空器的城市空中运输交通管理综述..... 李诚龙,屈文秋,李彦冬,黄龙杨,卫 鹏 (35)

航运管理研究综述..... 包甜甜,连 峰,杨忠振 (55)

• 道路与铁道工程 •

简支梁桥上嵌入式轨道无缝线路可靠性分析..... 冯青松,孙 魁,雷晓燕,陈华鹏 (70)

桥墩温度梯度对桥上 CRTS II 型板式无砟轨道纵向力的影响..... 张鹏飞,连西妮,桂 昊,雷晓燕 (80)

改性沥青疲劳破坏判定指标适用性..... 王 淋,郭乃胜,温彦凯,侯一烈,俞春晖,尤占平 (91)

降雨入渗下裂土边坡水分运移时空特征与失稳机理..... 周 峙,张家铭,宁伏龙,罗 易,王建立(107)

加筋泡沫轻质土三轴剪切力学特性  
..... 许江波,王元直,骆永震,晏长根,张留俊,尹利华,杨晓华,裘友强,兰恒星(120)

• 载运工具运用工程 •

湿热老化对 BFRP 粘接接头横向冲击力学性能的影响..... 那景新,谭 伟,慕文龙,栾建泽(134)

基于改进模糊 PID-Smith 控制器的高速动车组停车方法..... 李中奇,许 健(145)

高速列车转向架构架载荷识别与分布特性..... 陈道云,林凤涛,孙守光,牟明慧,肖 乾(155)

车轮扁疤激起的轴箱轴承冲击特性..... 查 浩,任尊松,徐 宁(165)

高速列车运行时不同转向架区噪声特性..... 王东镇,葛剑敏(174)

• 交通运输规划与管理 •

中国高速公路运输态势..... 李 彬,肖润谋,闫晟煜,马 健(184)

基于经验模态分解与长短时记忆神经网络的短时地铁客流预测模型..... 赵阳阳,夏 亮,江欣国(194)

考虑配载计划的铁路集港箱位指派..... 常祎妹,朱晓宁(205)

• 交通信息工程及控制 •

ADS-B 历史飞行轨迹数据清洗方法..... 王 兵(217)

基于在线有向无环图的船舶轨迹压缩算法..... 张远强,史国友,李 松(227)

CONTENTS

• Review •

- Research status and prospect of unconventional arterial intersection design  
 ..... AN Shi, SONG Lang, WANG Jian, WANG Ya-qing, HU Xiao-wei (1)
- Research progress of anti-friction and anti-wear of piston-cylinder liner system in internal combustion engine  
 ..... LYU Yan-jun, KANG Jian-xiong, ZHANG Yong-fang, LUO Hong-bo (21)
- Overview of traffic management of urban air mobility (UAM) with eVTOL aircraft  
 ..... LI Cheng-long, QU Wen-qiu, LI Yan-dong, HUANG Long-yang, WEI Peng (35)
- Research review of shipping management ..... BAO Tian-tian, LIAN Feng, YANG Zhong-zhen (55)

• Road and railway engineering •

- Reliability analysis of embedded track continuous welded rail on simply supported beam bridge  
 ..... FENG Qing-song, SUN Kui, LEI Xiao-yan, CHEN Hua-peng (70)
- Effect of pier temperature gradient on longitudinal force of CRTS II slab ballastless track on bridge  
 ..... ZHANG Peng-fei, LIAN Xi-ni, GUI Hao, LEI Xiao-yan (80)
- Applicability of determination indexes for fatigue failure of modified asphalt  
 ..... WANG Lin, GUO Nai-sheng, WEN Yan-kai, HOU Yi-lie, YU Chun-hui, YOU Zhan-ping (91)
- Temporal and spatial characteristics of moisture migration and instability mechanism of cracked soil slope  
 under rainfall infiltration ..... ZHOU Zhi, ZHANG Jia-ming, NING Fu-long, LUO Yi, WANG Jian-li (107)
- Triaxial shear mechanical properties of reinforced foam lightweight soil  
 ..... XU Jiang-bo, WANG Yuan-zhi, LUO Yong-zhen,  
 YAN Chang-gen, ZHANG Liu-jun, YIN Li-hua, YANG Xiao-hua, QIU You-qiang, LAN Heng-xing (120)

• Transportation vehicle engineering •

- Effect of hygrothermal aging on transverse impact mechanical properties of BFRP adhesive joints  
 ..... NA Jing-xin, TAN Wei, MU Wen-long, LUAN Jian-ze (134)
- High-speed EMU parking method based on improved fuzzy PID-Smith controller ..... LI Zhong-qi, XU Jian (145)
- Load identification and distribution characteristics of high-speed train bogie frame  
 ..... CHEN Dao-yun, LIN Feng-tao, SUN Shou-guang, MOU Ming-hui, XIAO Qian (155)
- Impact characteristics of axle box bearing due to wheel flat scars ..... ZHA Hao, REN Zun-song, XU Ning (165)
- Noise characteristics in different bogie areas during high-speed train operation ..... WANG Dong-zhen, GE Jian-min (174)

• Transportation planning and management •

- Transportation trend of Chinese expressway ..... LI Bin, XIAO Run-mou, YAN Sheng-yu, MA Jian (184)
- Short-term metro passenger flow prediction based on EMD-LSTM  
 ..... ZHAO Yang-yang, XIA Liang, JIANG Xin-guo (194)
- Slot allocation of railway container terminal considering stowage plan ..... CHANG Yi-mei, ZHU Xiao-ning (205)

• Traffic information engineering and control •

- Data cleaning method of ADS-B historical flight trajectories ..... WANG Bing (217)
- Compression algorithm of ship trajectory based on online directed acyclic graph  
 ..... ZHANG Yuan-qiang, SHI Guo-you, LI Song (227)