

铁道运输与经济

RAILWAY TRANSPORT AND ECONOMY

主管：中国国家铁路集团有限公司

主办：中国铁道科学研究院集团有限公司



济南铁路物资工业集团有限公司
Jinan Railway Materials Industry Group Limited Company

- ◎ 铁路数字信号电缆
- ◎ 组装式高站台
- ◎ 铁路简统化接触网
- ◎ 铁路专用对讲机及音视频记录仪
- ◎ 道岔及弹条扣件
- ◎ 超硬复合钢轨打磨砂轮
- ◎ 荷贝尔洗化及防疫产品
- ◎ 防溜铁鞋动态监控系统
- ◎ 动车组全系列清洗剂
- ◎ 金属声屏障

广告

ISSN 1003-1421



9 771003 142226

10>



万方数据

10 44卷
2022

目 次

■ 运输组织

- 面向能力运用的京沪高速铁路列车停站方案与运行图协同优化研究 张 新, 范家铭, 王宝杰, 郭一唯 1
2万吨列车条件下神池南站到发线运用方案研究 段宏海, 宋丽莉, 张进川, 陶润泽, 王兴中 9

■ 旅客运输

- 提高直通动车组列车开行方案编制与实施质量研究 庞子恒 19
考虑动态走行时间的铁路换乘公交衔接优化 高俊华, 张 姚, 蒋阳升 25

■ 现代物流

- 160 km/h 快捷货车集装化运输模式探析 周晓坤, 贺茂盛, 赵天军, 肖 驹, 邵文东, 谢素明 32

■ 站场枢纽

- 高铁货运动车组装卸线股道有效长设置方法研究 丁小东, 周凌云, 许植深, 王涵晴, 王 言, 宫薇薇, 陈 晨 37
铁路编组站开展 JSQ 型车辆驼峰溜放可行性研究 张小强 44

■ 经济研究

- 高速铁路浮动票价政策公平性研究 李凯旋, 景 云, 郭思冶, 孙国锋, 杨凯名 49
中国区域物流资源配置水平及时空演变研究 林伟敏, 刘成华 57
货运方式“公转铁”的惯性效应研究 简文良, 代严红, 诸立超 64
基于 DID 模型的宝兰高速铁路对甘肃省沿线县域经济的影响研究 姚永鹏, 陈文杰, 莫琪江 70

期刊基本参数: CN11-1949/U*1979*M*16*156*zh*P*¥25.00*21*2022-10

■ 经营管理

全息视角下铁路运输企业“四阶四维一体化”风险债权管控体系研究

..... 胡俊南, 王振涛, 杜思远 77

■ 运输安全

基于Grey-DEMATEL-ISM方法的高速铁路现场作业人的不安全行为分析

..... 田雷, 刘新, 陈琦 85

定压对货物列车限速及运行时分的影响研究 段明民 93

■ 城市轨道交通

城市轨道交通线网列车运行图协同编制系统功能研究

..... 杜懿佳, 陈钉均, 吕红霞, 吕苗苗, 潘金山 99

城市轨道交通网络客流瓶颈与状态演变特征分析

..... 陈钱飞, 窦亮, 冉昕晨, 赵留杰, 陈绍宽 105

地铁重联编组运营组织综合效益分析 王学贵 112

基于多源数据下杭州地铁站点地区耦合协调性评价

..... 石坚韧, 吕庆文, 郭巧云, 赵秀敏 120

基于客流与行车协同的城市轨道交通线网调度指挥系统研究

..... 刘荣峰, 赵留杰, 钱江, 窦亮, 张琪 129

■ 运输综合技术

高速铁路动车组集群运行仿真技术研究 李和壁, 梁家健, 张守帅, 白鑫, 姜昕良 135

琼州海峡跨海铁路通道分期建设方案研究 郑笑, 沈晓鹏 144

CONTENTS

TRANSPORT ORGANIZATION

- Collaborative Optimization of Train Stop Plan and Timetable of Beijing–Shanghai
High Speed Railway Based on Capacity Utilization ZHANG Xin, FAN Jiaming, WANG Baojie, GUO Yiwei 1
Application Scheme of Arrival-departure Tracks of Shenchinan Station under the Condition
of 20 000-ton Trains DUAN Honghai, SONG Lili, ZHANG Jinchuan, TAO Runze, WANG Xingzhong 9

PASSENGER TRAFFIC

- Compilation and Implementation Quality of Train Operation Plan for Through EMU PANG Ziheng 19
Optimization of Transfer from Railway to Bus Considering Dynamic Travel Time
..... GAO Junhua, ZHANG Yao, JIANG Yangsheng 25

MODERN LOGISTICS

- Containerization Transport Modes of 160 km/h Express Freight Car
..... ZHOU Xiaokun, HE Maosheng, ZHAO Tianjun, XIAO Qian, SHAO Wendong, XIE Suming 32

YARD AND HUB

- Research on Effective Length Setting Method of Loading and Unloading Track for High Speed Rail Freight Electrical
Multiple Units DING Xiaodong, ZHOU Lingyun, XU Zhishen, WANG Hanqing, WANG Yan, GONG Weiwei, CHEN Chen 37
Feasibility Study on Hump Sliding of JSQ Wagons at Railway Marshaling Stations ZHANG Xiaoqiang 44

ECONOMIC RESEARCH

- Research on Fairness of High Speed Railway Floating Fare Policy
..... LI Kaixuan, JING Yun, GUO Siye, SUN Guofeng, YANG Kaiming 49
Regional Logistics Resource Allocation in China and Its Time-Space Evolution LIN Weimin, LIU Chenghua 57
Inertial Effect Analysis on Freight Mode Shifting from Roads to Railways JIAN Wenliang, DAI Yanhong, ZHU Lichao 64
Impact of Baoji–Lanzhou High Speed Railway on County Economy along the Line in Gansu Province
Based on DID Model YAO Yongpeng, CHEN Wenjie, MO Qijiang 70

OPERATION AND MANAGEMENT

- Research on Risk Creditor Rights Control System with “Four-Stage and Four-Dimensional Integration” of
Railway Transportation Enterprises from a Holographic Perspective HU Junnan, WANG Zhentao, DU Siyuan 77

TRANSPORT SAFETY

- Analysis of People’s Unsafe Behavior during High Speed Railway Operation Based
on Grey-DEMATEL-ISM Method TIAN Lei, LIU Xin, CHEN Qi 85
Influence of Brake Pipe Pressure on Speed Limit and Running Time of Freight Trains DUAN Mingmin 93

URBAN RAIL TRANSIT

- Function of Collaborative Compilation System of Train Working Diagram for Urban Rail Transit Network
..... DU Yijia, CHEN Dingjun, LYU Hongxia, LYU Miaoqiao, PAN Jinshan 99
Analysis on Passenger Flow Bottlenecks and State Evolution Characteristics of Urban Rail Transit Networks
..... CHEN Qianfei, DOU Liang, RAN Xinchen, ZHAO Liujiie, CHEN Shaokuan 105
Comprehensive Benefit Analysis on Operation Organization of Reconnection Marshalling for Subway
..... WANG Xuegui 112
Evaluation of Coupling and Coordination of Hangzhou Metro Station Areas Based on Multi-Source Data
..... SHI Jianren, LYU Qingwen, GUO Qiaoyun, ZHAO Xiumin 120
Research on Dispatching Command System for Urban Rail Transit Network Based on Passenger Flow
and Train Operation Coordination LIU Rongfeng, ZHAO Liujiie, QIAN Jiang, DOU Liang, ZHANG Qi 129

INTEGRATED TECHNOLOGY OF TRANSPORTATION

- Research on Simulation Technology for Cluster Operation of High Speed Electrical Multiple Units
..... LI Hebi, LIANG Jiajian, ZHANG Shoushuai, BAI Xin, JIANG Xinliang 135
Study on Phased Construction Scheme of Qiongzhou Strait Railway ZHENG Xiao, SHEN Xiaopeng 144

携手保价 畅行无忧



铁路保价

Insured Transport of China Railway

万方数据

CN 11-1949/U

邮发代号：82-402

定价：25元/册

300元/年

铁路保价运输以保障客户利益为出发点，竭诚为客户
提供更妥善的货物运输安全服务；以客户货物安全保护为
己任，热诚为客户提供最贴心便捷的理赔服务。

铁路保价运输永远是客户值得信赖的朋友！
欢迎参加铁路保价运输！

广告