



ISSN 1006-9178

A standard linear barcode representing the ISSN 1006-9178. Below the barcode, the numbers "9 771006 917210" are printed.

0.8>

万方数据

第49卷 第8期

总第418期

1973年创刊 月刊

- 中国核心期刊(遴选)数据库期刊
- 中国学术期刊网络出版总库期刊
- 中文科技期刊数据库期刊

主管单位：中国国家铁路集团有限公司

主办单位：中国铁道科学研究院集团有限公司

主编：刘春雨

编辑：牛建利 冯姗姗 吴磊  
范庆平 郁杨

执行编辑：牛建利

编辑单位：中国铁道科学研究院集团有限公司标准计量研究所《铁道技术监督》编辑部

出版单位：《中国铁路》杂志社有限责任公司

地址：北京市海淀区大柳树路2号

邮编：100081

电话：路电(021)49084 49214  
93901

市电(010)51849084 51849214  
51893901

投稿网址：<http://tdjj.cbpt.cnki.net>

中国标准连续出版物号：ISSN 1006-9178  
CN 11-3764/U

广告经营许可证号：京海市监广登字  
20210019号

印刷单位：北京康利胶印厂

出版日期：2021年8月20日

国内总发行：北京报刊发行局

订购处：全国各地邮局

邮发代号：2-584

海外总发行：中国国际图书贸易集团有限公司

海外发行代号：M 3885

海外定价：7美元/册

国内定价：15.00元/册

本刊已入编国内多家电子期刊数据库，  
以扩大交流范围，不同意入编的作者请在来稿中声明，以便妥善处理。

标准化工作

解析铁道行业标准《机车车辆螺栓连接设计准则》

蒋田芳，于春广，郑静 (1)

一次性集装箱液体集装袋标准比较分析

赵华，秦震，王天罡 (7)

计量工作

机车车辆转向架静载试验台量值溯源相关问题探讨

陆明，路计哲，付久容 (11)

轨道衡设备运行状态监控系统设计

梁广柱，吕志德，周泽满，陈勇，麻勇江 (14)

提高高铁道货车超偏载检测装置确报匹配率的探讨

丁宗学，常伟，伏滨 (18)

检验与认证

机车自动视频监控系统电磁兼容性试验

李勇，王克俊，杨鹏，王科理，李肖刚 (20)

质量管理

JX300型接触网检测车行车控制电路设计缺陷与改进措施 王荣新 (26)

HX<sub>N</sub>3B型机车3种故障原因分析及其对策 李洪卫 (30)

铁路客车电加热器布线分析与故障排查 张健 (34)

研究与交流

线路超高对重载铁路钢轨波磨的影响 舛建民，秦宪国 (38)

闸瓦间隙调整器控制距离变化造成车辆抱闸问题分析 蒲宗礼 (43)

动力集中型电动车组牵引力瞬间掉零故障分析和解决措施

颜宁，顾新东，郑维飞 (46)

高速铁路钢轨铝热焊焊接接头“四线五类”打磨方案设计

任金雷，宋宏图，高松福 (48)

GCD600型轨道车新型二系空气弹簧供风系统设计

李博，张高峰，张乾宇，朱世昌 (51)

通报与公告

中铁检验认证中心有限公司认证公告 2021年第22—26号

(总第509—513号) (56)

铁路产品标识代码公告 2021年第7号 (总第165号) (114)

简讯

CRCC轨道交通系统测试国家工程实验室顺利通过合同验收 (77) 2021青岛国际标准化大会召开 (89)

广告索引 (37)

Vol.49 No.8

No.418 in total

First Published in 1973 Monthly

- Member of the China Database of Core Periodicals (Selection)
- Member of General Library of Chinese Academic Journal Web Publishing
- Member of Chinese Science and Technology Periodical Database

Administrated by: CHINA RAILWAY

Hosted by: China Academy of Railway Sciences Corporation Limited

Editor-in-Chief: LIU Chunyu

Editors: NIU Jianli, FENG Shanshan, WU Lei, FAN Qingping, YU Yang

Executive Editor: NIU Jianli

Edited by: Editorial Department of Railway Quality Control, Standards & Metrology Research Institute of CARS

Published by: China Railway Editorial Office Co. Ltd.

Address: 2 Daliushu Road, Beijing

Postal Code: 100081

Tel: +86-10-51849084 51849214 51893901

Website: <http://tdjj.cbpt.cnki.net>

China Standard ISSN 1006-9178

Serial Numbering: CN 11-3764/U

No. of Certificate Advertisement:  
BHSJG 20210019

Printing: Beijing Kangli Printing House

Date of Publication: 20 August 2021

Domestic Distributor:  
Beijing Newspapers & Periodicals Distribution Bureau

Ordering Office: Local Postal Offices in China

Domestic Distribution Code: 2-584

Overseas Distributor: China International Book Trading Corporation (CIBTC)

Distribution No.: M 3885

Price: US\$7/copy

## Standardization Work

- Interpretation of Railway Industry Standard *Design Guide of Bolted Joints for Rolling Stock* ..... JIANG Tianfang, YU Chenguang, ZHENG Jing ( 1 )  
Compare and Analyze the Standard of Disposable Flexitanks for Bulk Liquid ..... ZHAO Hua, QIN Zhen, WANG Tiangang ( 7 )

## Measurement Work

- Discussion on Issues of Traceability for Static Load Test-bed of Railway Rolling Stock  
Bogie ..... LU Ming, LU Jizhe, FU Jiurong ( 11 )  
Design of the Monitoring System of Rail-weighbridge Equipment Operation Status ..... LIANG Guangzhu, LV Zhide, ZHOU Zeman, CHEN Yong, MA Yongjiang ( 14 )  
Discussion on Improving the Train Consists Matching Rate of Overload and Unbalanced Load Detection Device ..... DING Zongxue, CHANG Wei, FU Bin ( 18 )

## Inspection and Certification

- Electromagnetic Compatibility Test of Locomotive Automatic Video Monitoring System ..... LI Yong, WANG Kejun, YANG Peng, WANG Keli, LI Xiaogang ( 20 )

## Quality Management

- Design Defects and Improvement Measures of the Driving Control Circuit of JX300  
Catenary Inspection Car ..... WANG Rongxin ( 26 )  
Analysis and Countermeasures for Three Faults of HXN3B Locomotive ..... LI Hongwei ( 30 )  
Wiring Analysis and Fault Investigation for Electric Heater of Railway Passenger Car ..... ZHANG Jian ( 34 )

## Study and Communications

- Influence of Line Super-elevation on Rail Corrugation of Heavy Haul Railway ..... YIN Jianmin, QIN Xianguo ( 38 )  
Analysis of Vehicle Holding Brake Caused by the Change of Control Distance of Brake  
Slack Adjuster ..... PU Zongli ( 43 )  
Analysis and Solution of Traction Force Instantaneous Zero Fault of Power Concentrated  
EMU ..... YAN Ning, GU Xindong, ZHENG Weifei ( 46 )  
Design of "Four Lines and Five Types" Grinding Scheme for Rail Thermit Welding Joint  
of High-speed Railway ..... REN Jinlei, SONG Hongtu, GAO Songfu ( 48 )  
The Design of Air Supply System for New Secondary Air Spring on the GCD600 Railway  
Vehicle ..... LI Bo, ZHANG Gaofeng, ZHANG Qianyu, ZHU Shichang ( 51 )

## Notice and Announcements

- CRCC Public Notices of Certifications ( No.22-26 of 2021, No.509-513 in total ) ..... ( 56 )  
Notice of Identification Code for Railway Related Products  
( No.7 of 2021, No.165 in total ) ..... ( 114 )