



ISSN 1004-7204



9 771004 720201

万方数据

行业动态 TRADE NEWS

- | | | |
|----|------|-----|
| 01 | 新闻资讯 | P01 |
| 02 | 标准动态 | P05 |
| 03 | 会议信息 | P06 |

试验技术与方法 TEST TECHNIQUES AND METHODS

- | | | | |
|----|--|--|-----|
| 04 | 基于逆幂率模型的随机振动疲劳加速试验应用方法研究
Study on the Application Method of Random Vibration Fatigue Accelerated Test Based on the Inverse Power Model | 曹强, 何亚屏, 王婷, 孙保涛, 刘斐
CAO Qiang, HE Ya-ping, WANG Ting, SUN Bao-tao, Liu Fei | P07 |
| 05 | 军用整车道路行驶可靠性试验方法研究
Research on Test Method of Road Driving Reliability of Military Vehicles | 杨明军, 鲁吉林, 余云加, 叶江勇
YANG Ming-jun, LU Ji-lin, YU Yun-jia, YE Jiang-yong | P13 |
| 06 | 汽车电气和电子部件的环境试验总体要求与可靠性研究
Research of Entire Requirements on Environmental Tests and Reliability for Electrical and Electronic Components in Vehicle | 许毅, 马壮, 王家星
XU Yi, MA Zhuang, WANG Jia-xing | P17 |
| 07 | 汽车电气和电子部件环境可靠性与关键试验解析
Analysis of Environmental Reliability and Key Tests for Electrical and Electronic Components in Vehicles | 许毅, 吴国平, 马壮
XU Yi, WU Guo-ping, MA Zhuang | P22 |
| 08 | 整车行驶可靠性与室内道路模拟试验技术方法研究
Research on Vehicle Driving Reliability Testing Method and Road Simulation Test System in Laboratory | 夏雪宝, 鲁吉林, 余云加, 杨明军
XIA Xue-bao, LU Ji-lin, YU Yun-jia, YANG Ming-jun | P27 |
| 09 | 汽车座舱环境挥发性有机物测试研究
Research on Testing of Volatile Organic Compounds in Automobile Cabin Environment | 顾娟, 温旭光
GU Juan, WEN Xu-guang | P33 |
| 10 | 多媒体 HALT 试验及结果分析
Multimedia HALT Test and Result Analysis | 余天刚, 李志强
YU Tian-gang, LI Zhi-qiang | P37 |
| 11 | 汽车金属镀层中六价铬定量测定的若干问题
The Problem of the Determination Method of Hexavalent Chromium Content in the Metal Anti-corrosion Coating of a Vehicle | 付佳永, 王越, 胡寅浩, 刘亚林, 王焰孟
FU Jia-yong, WANG Yue, HU Yin-hao, LIU Ya-lin, WANG Yan-meng | P43 |
| 12 | 非电气部件导致电磁辐射超标案例分析
Case Analysis on Electromagnetic Radiation Emission Exceeding the Standard Caused by Non-Electrical Components | 张高杰, 田永坡, 张萌, 余天刚, 刘超
ZHANG Gao-jie, TIAN Yong-po, ZHANG Meng, YU Tian-gang, LIU Chao | P47 |
| 13 | 整车辐射抗扰问题排查及整改分析
Trouble Shooting and Rectification Analysis of Vehicle Radiation Immunity | 余天刚, 田永坡
YU Tian-gang, TIAN Yong-po | P52 |



中国船舶重工



航天科工

(企业排列不分先后)

- 14 锌及锌合金镀层盐雾试验腐蚀形态研究
Study on Corrosion Morphology of Zinc and Zinc Alloy Coatings by Salt Spray Test
陈敏娟, 陈浩, 陆松
CHEN Min-juan, CHEN Hao, LU Song P56
- 15 汽车前风挡玻璃油雾现象分析及管控建议
Analysis and Control of Oil Mist in Front Windshield Glass of Automobile
顾娟, 唐振华
GU Juan, TANG Zhen-hua P61
- 16 不同颜色油漆试板的耐光老化性能分析
Analysis of Light Aging Resistance of Paint Test Panels with Different Colors
阮姮妍, 李飞, 郑思维
RUAN Heng-yan, LI Fei, ZHENG Si-wei P67
- 17 整车自然暴晒与全光谱阳光模拟老化相关性研究
Study on the Correlation between Vehicle Natural Exposure and Full-Spectrum Sunlight Simulation Aging
陈平方, 余晓杰, 陆挺
CHEN Ping-fang, YU Xiao-jie, LU Ting P70
- 18 汽车冷却系统黑色异物的成分分析及来源探究
Research on Component Analysis of Black Foreign Substance in Vehicle Cooling System and its Sources
刘帮毅, 高朝乾, 陈磊
LIU Bang-yi, GAO Chao-qian, CHEN Lei P74
- 19 消毒水使用对汽车 VOC 检测结果的影响
The Effect of Disinfectant on VOC Test Results of Automobiles
付佳永, 胡寅浩, 刘亚林, 王越, 郭金玉, 王焰孟
FU Jia-yong, HU Yin-hao, LIU Ya-lin, WANG Yue, GUO Jin-yu, WANG Yan-meng P78
- 20 道路车辆电气和电子部件的电气要求与性能试验研究
Research of Electrical Requirements and Performance Tests for Electrical and Electronic Components in Vehicles
许毅, 沈海舟, 陆斌
XU Yi, SHEN Hai-zhou, LU Bin P82
- 21 汽车内饰材料雾化性质控研究
Study on Quality Control of the Fogging Characteristics of Interior Automotiv Ematerials
周岚, 宋景华, 顾娟
ZHOU Lan, SONG Jing-hua, GU Juan P87
- 22 汽车材料中多溴二苯醚同分异构体定量检测研究
Research on the Quantitative Detection of Polybrominated Biphenyls and Polybrominated Diphenyl Ethers Isomers in Automotive Materials
王科, 傅键, 郑思维, 陈雷明, 徐伦迪, 王焰孟, 付佳永
WANG Ke, FU Jian, ZHENG Si-wei, CHEN Lei-ming, XU Lun-di, WANG Yan-meng, FU Yong-jia P91

研究探讨 RESEARCH AND DISCUSSION

- 23 基于大数据分析的汽车外饰部件光热老化模型研究
Research on Light-heat Aging Model for Automobile Exterior Parts Basing on Big Data Analytics
张晓东, 王伟健, 祁黎, 陈心欣, 李淮, 曾文波, 赵雪茹
ZHANG Xiao-dong, WANG Wei-jian, QI Li, CHEN Xin-xin, LI Huai, ZENG Wen-bo, ZHAO Xue-ru P96
- 24 移动式太阳辐射热效应系统的设计与应用
Design and Application of Mobile Solar Radiation System with Thermal Effect
杨明军, 赵家华, 余云加, 叶江勇
YANG Ming-jun, ZHAO Jia-hua, YU Yun-jia, YE Jiang-yong P101



(企业排列不分先后)

万方数据

- 25 汽车排放后处理器带热介质振动试验系统
EGP Vibration Test System with Thermal Medium
刘浩, 刘玥, 芮鹏, 罗旺
LIU Hao, LIU Yue, RUI Peng, LUO Wang P104
- 26 锂离子电池性能退化的应力模型研究
Study on Stress Models of Performance Degradation for Lithium-ion Cells
史峥宇, 陈建明, 刘伟良, 陈磊
SHI Zheng-yu, CHEN Jian-ming, LIU Wei-liang, CHEN Lei P111
- 27 基于复数矢量分析的汽车起重机液压变幅机构优化设计
Optimization Design of Hydraulic Luffing Mechanism of Truck Crane
Based on Complex Vector Analysis
房秋怡, 周伟, 刘鹏, 段克军
FANG Qiu-yi, ZHOU Wei, LIU Peng, DUAN Ke-jun P116
- 28 PEMFC 电堆简易模拟器
PEMFC Simple Stack Simulator
雷泉, 丁小松, 刘柱龙
LEI Xiao, DING Xiao-Song, LIU Zhu-long P122
- 29 基于信息融合的车载式变压器运行信息特征提取系统设计
Design of Vehicle Transformer Operation Information Feature
Extraction System Based on Information Fusion
戴迎宏, 陈威, 闫培渊, 周际, 汤国龙
DAI Ying-hong, CHEN Wei, YAN Pei-yuan, ZHOU Ji, TANG Guo-long P126
- 30 电磁环境下车载通信设备的抗干扰适应性分析
Anti-jamming Adaptability Analysis of Vehicle Communication Equipment in
Electromagnetic Environment
董鹏乐
DONG Peng-le P132
- 31 强噪音环境下基于震动信号的车辆适应性分析
Vehicle Adaptability Analysis Based on Vibration Signal in Strong Noise
Environment
雷艳惠
LEI Yan-hui P138
- 32 卫星通信下物流车辆定位系统可靠性研究
Research on Reliability of Logistics Vehicle Positioning System under
Satellite Communication
董楠
DONG Nan P142
- 33 微型计算机在车辆自动转向控制中的应用可靠性研究
Research on Application Reliability of Microcomputer in Automatic
Steering Control of Vehicle
贾建忠
JIA Jian-zhong P148
- 34 基于遗传算法的汽车零部件渐变可靠性演化分析
Reliability Evolution Analysis of Automobile Parts Based on Genetic
Algorithm
汤志华
TANG Zhi-hua P153
- 35 基于嵌入式系统的汽车轮胎气压强度信号监控研究
Research on the Monitoring of Automobile Tire Pressure Signal Based on
Embedded System
唐卫斌
TANG Wei-bin P158
- 36 基于卷积神经网络的车辆识别技术研究
Research on Vehicle Recognition Technology Based on Convolutional Neural
Network
欧华杰
OU Hua-jie P163



航空综合

labtone
莱伯通

(企业排列不分先后)

- 37 帝豪 EV450 纯电动汽车后视镜系统故障维修
Emperor EV450 Rearview Mirror System Fault Repair
张莉莉
ZHANG Li-li P168
- 38 基于国产自主新能源汽车电驱动系统量产关键技术研究
Research on Key Technologies of Mass Production of Electric Drive System
Assembly for Domestic New Energy Vehicles
余康, 曹德峰, 刘鹏飞, 李云, 王忠民, 刘伟良
YU Kang, CAO De-feng, LIU Peng-fei, LI Yun, WANG Zhong-min, LIU Wei-liang P174
- 39 悬置螺栓断裂失效分析
Fracture Failure Analysis for Suspension Bolt
庞院, 王福平, 马秋, 郭秋彦, 袁成逸
PANG Yuan, WANG Fu-ping, Ma Qiu, GUO Qiu-yan, YUAN Cheng-yi P180
- 40 保温材料的密度对非稳态测试过程影响的数值模拟研究
Numerical Simulation Study on the Influence of Thermal Insulation Material
Density on Unsteady Testing Process
孙坤龙
SUN Kun-long P184
- 41 考虑环境因素的新能源配送汽车换电站选址路径优化
Path Optimization of New Energy Distribution Vehicle Replacement
Station Considering Environmental Factors
张永学, 张婕姝
ZHANG Yong-xue, ZHANG Jie-shu P187

综述 RESEARCH REVIEW

- 42 标准《汽车驾驶自动化分级》(报批稿)解析
Analysis on Taxonomy of Driving Automation for Vehicles
胡静, 邓俊泳
HU Jing, DENG Jun-yong P192
- 43 汽车材料循环腐蚀标准的试验参数归纳及发展趋势分析
The Summary and Future Development of the Parameters Designing in
Cyclic Corrosion Testing Standard for Automotive Materials
朱家琰, 阮姮妍, 郑思维
ZHU Jia-yan, RUAN Heng-yan, ZHENG Si-wei P196
- 44 电驱动功率模块微纳米尺度加工新技术及应用
New Technology and Application of Micro and Nano Scale Processing of
Electric Drive Power Module
曹德峰, 刘伟良, 刘鹏飞, 陈致初, 陈建明, 陈磊, 曾润东
CAO De-feng, LIU Wei-liang, LIU Peng-fei, CHEN Zhi-chu, CHEN Jian-min, CHEN Lei,
ZENG Run-dong P203
- 45 出口中东汽车的设计改善建议
Suggested Design Improvements for Exported Cars to Middle Eastern
Markets
陈涌填, 吴传洋, 林养全, 黄冠鑫
CHEN Yong-tian, WU Chuan-yang, LIN Yang-quan, HUANG Guan-xin P208
- 46 电动汽车充电桩现场安全问题的研究
Research on the on-site Safety of Electric Vehicle Charging Pile
魏星, 陈永强, 薛晔, 张治文
WEI xing, CHEN Yong-qiang, XUE Ye, ZHANG Zhi-wen P212
- 47 考虑安全规范的电动汽车安全问题综述
Review on Electric Vehicle Safety Issues Considering International
Regulations
李楠
LI Nan P216