

测试理论

进出口音视频产品能效测试技术研究

何鶴頤 1

无线电子标签读写器天线的研究

牛国柱, 梁海燕, 孙 星 5

测试方法

物理测试

一种基于EMD的系统误差分离方法

李世平, 付 宇, 张 进 9

路况与地铁车辆振动关系的测试分析研究

张华超, 张小栋, 曹广忠 14

粉粒农业物料水分测量方法探讨

张梦珠, 杨 艳, 戈振扬 18

数字可调移液器校准方法研究

汪朝红, 胡良勇, 傅忆宾, 等 23

检测数据的修约研究与探讨

林景星 26

肺功能仪校准和标定方法的研究

魏 川 29

食品测试

高效液相色谱法同时测定糕点中4种防腐剂

赵质创, 杨建英, 姚庆伟, 等 33

气相色谱法测定果蔬汁饮料中6种防腐剂

孙颖霞, 翁光灿, 倪炜华 37

药物测试

保健食品中未知滥用药物快速筛查与鉴定

谭和平, 邹 燕, 谭福元, 等 40

便携式原子吸收光谱法测定茯苓中的铜铬铅镉

杨万清, 高 英, 范广宇, 等 43

测控技术

阻抗匹配电路在电子测量仪器前端模拟通道中的应用

唐金元, 王翠珍, 于 路 45

核磁共振测井信号调理与回波提取技术研究

张嘉伟, 薛志波, 宋公仆, 等 49

PLC输入输出接口测试系统设计

车 畅, 胡 丹, 白晗东 53

基于Max1847的核仪器高压电源设计

杨 建, 郑永明, 黄 平 57

基于PLC的随速变压停车制动设计与实现

凌世波, 伍川辉 60

信号采集中峰值检测电路的设计与实现

郭宗平, 王厚军, 戴志坚 63

1590超级测温仪自动测试系统的开发

廖 艳, 陈桂生, 赵 晶, 等 67

可控硅调压系统中拼波角度求解算法的研究

胡洋洋, 程玉华 70

基于二级信息融合的装备故障诊断方法

赵双龙, 郝永生 74

自动测试仪器硬件板卡识别技术研究

田 娜, 钱光弟, 李 力 78

抱杆安装的通信设备动力特性分析

汲书强, 孙国良, 周金荣, 等 81

烧结矿全自动在线质检系统的研制与应用

刘 阳, 吴红桃, 雷 坤, 等 85

整体四柱式力传感器弹性体的有限元分析

易 伟, 陈世超, 徐尹杰 89

全光纤双传臂振动传感器频率特性研究

吕 坚, 戴基智, 代志勇, 等 93

Test Theories

- Research on energy efficiency test technology for audio & video products
Research of wireless RFID reader antenna

HE Li-ying 1
NIU Guo-zhu, LIANG Hai-yan, SUN Gang 5

Test Methods

Physical Tests

Systematic error separation method based on EMD	LI Shi-ping, FU Yu, ZHANG Jin 9
Research on relationship between track condition and metro vehicle vibration	ZHANG Hua-chao, ZHANG Xiao-dong, CAO Guang-zhong 14
Discussion on methods of measuring moisture of granular agricultural materials	ZHANG Meng-zhu, YANG Yan, GE Zhen-yang 18
Study on digital variable-volume pipette calibration	WANG Chao-hong, HU Liang-yong, FU Yi-bin, et al. 23
Research and analysis on rounding off of testing data	LIN Jing-xing 26
Research on spirometer calibration method	WEI Chuan 29

Food Testing

Simultaneous determination of 4 preservatives in cakes by high performance liquid chromatography	ZHAO Zhi-chuang, YANG Jian-ying, YAO Qing-wei, et al. 33
Determination of 6 antiseptics in fruit and vegetable juice drink by gas chromatography	SUN Ying-xia, WENG Guang-can, NI Wei-hua 37
Medicine Testing	
Rapid screening and identification of unknown abused drugs in dietary supplements	TAN He-ping, ZOU Yan, TAN Fu-yuan, et al. 40
Determination of copper, chromium, lead and cadmium in poria cocos with portable atomic absorption spectrometry	YANG Wan-qing, GAO Ying, FAN Guang-yu, et al. 43

Measurement and Control Technologies

Application of impedance matching circuit in analog input channels of electronic measuring instruments	TANG Jin-yuan, WANG Cui-zhen, YU Lu 45
Research of processing NMR signal and detecting echo signal	ZHANG Jia-wei, XUE Zhi-bo, SONG Gong-pu, et al. 49
Design of test system for PLC input-output interfaces	CHE Chang, HU Dan, BAI Han-dong 53
High voltage power supply design based on Max1847 for nuclear instrumentation	YANG Jian, ZHENG Yong-ming, HUANG Ping 57
Design and implementation of parking brake in variable pressure adapted to different speed based on PLC	LING Shi-bo, WU Chuan-hui 60
Design and implementation of peak detection circuit in signal acquisition	GUO Zong-ping, WANG Hou-jun, DAI Zhi-jian 63
Research and design of automatic test system based on 1590 "Super-Thermometer II"	JIAO Yan, CHEN Gui-sheng, ZHAO Jing, et al. 67
Research on the algorithm of computing voltage synthesis angle in thyristor regulating system	HU Yang-yang, CHENG Yu-hua 70
Equipment fault diagnosis method based on two step data fusion	ZHAO Shuang-long, HAO Yong-sheng 74
Research on the technology of the automatic test instrument hardware boards recognition	TIAN Na, QIAN Guang-di, LI Li 78
Analysis on dynamic characteristics of telecommunication equipment fixing on pole	JI Shu-qiang, SUN Guo-liang, ZHOU Jin-rong, et al. 81
Developing and application of automatic online quality test system of sinter	LIU Yang, WU Hong-tao, LEI Kun, et al. 85
Finite element analysis of elastic component of overall four-post type force transducer	YI Wei, CHEN Shi-chao, XU Yin-jie 89
Research on frequency characteristic of all-fiber optic vibration sensor with dual sensing arm	LÜ Yao, DAI Ji-zhi, DAI Zhi-yong, et al. 93