

计量与测试技术

Metrology & Measurement Technique

医学质控技术

1. 基于无线传感网络 PCR 仪温度校准装置的研制 吕茂超 王大玮 辜卫国 朱娟
4. 基于光电容积脉搏波 RR 间期的睡眠静息状态识别 王佳欣 李敏 赖富俊
9. 多参数监护仪进入静态压力测试模式方法总结 夏德志

计量仪器科研与实践

11. 含从动橡胶曲柄的机构运动对称作用力分析 程寿国
13. 电子天平检定活塞式压力计专用砝码质量的若干探讨 徐煦 洪扁 刘波 冯齐斌
16. 新制高温铂电阻温度计退火实验研究 王海涛 孙云飞 文萌 董亮 孙建平
20. 一种电导率仪自动检定装置的研制 魏鹏 林国辉 方杰
23. 加速度计套组灵敏度幅值校准研究 吴姗姗 王柠莎 刘星辰 甘远
26. 配合条件对自润滑关节轴承承载能力影响的研究 陈德航 李宝福
30. 基于双目视觉的隧道管片钢模面合模状态检测 沈昕儒 李明 韦庆玥 郑增
33. 大管径烟道截面积在线测量设备的研制 徐峰
35. 基于虚拟仪器的场强测试仪设计关键技术研究 王硕
39. 一种电子等分尺的研究与实现 屈环宇 翁晓伟
41. 烟梗提取液中氯离子的吸收与测定 陈星金京
44. 火炮光栅测径仪校准装置的研制与验证 任淑红 赵艺凡 李英豪 付宇
48. 数字水准仪测量所需最短条码长度的研究 孙彦锋 周颖熙
51. 计步器算法设计 戈禹恒
54. 玻璃液体温度计示值误差的自动采集系统研制 沈健 卢菊

计量方法与应用

57. 实验室新进人员比对方案及实施 高楠 李俊 徐玥 吴正华
59. 转矩转速测量装置动态校准方法设计 毛勤卫 何建新
62. 对于液态沥青实时计量方法的研究 张禄 高岩 杨立宏 张永波 段永祺
65. 关于太阳能热水器防冻带寿命测试装置及方法的研制 刘念波 陈风林
68. 基于 AMS2750 标准对温度仪表校准要求和校准方法的探讨
..... 吴静文 谷山林 高伟 眭程铭 刘晓晗

目 次

2020年第48卷

- 72.一种将 LabVIEW 软件与液压测试系统硬件结合的加密方法 张进 邢科礼 金侠杰
- 74.溶液标准物质及滤光片检定/校准分光光度法化学需氧量测定仪的优缺点对比 丁萍 翟胜强 彭欣 王路 闫志国
- 78.声强空间分布及水听器灵敏度标定误差分析 张海生 罗斌 李跃文 王东 邵杨梦 梁清
- 81.一种场景可复现的穿戴型定位终端检测方法 陈功
- 83.建筑外门窗气密性能检测装置的空气流量测量装置的校验方法探讨 李晗 李飞
- 88.城市建筑施工扬尘在线监测与防治措施的研究 蔡久红 郑展民 臧春华

计量监督管理

- 91.GB/T 18487.2-2017 标准测试难点及建议 梁观胜 何志辉 徐东平
- 95.JJG 882-2019《压力变送器》检定规程对标准器的要求及选择 杨敬磊
- 97.院校科研测量设备计量确认模式研究 高涛 韩梅 郭辉
- 100.依据新规程开展呼出气体酒精含量测定仪检定工作的思考 李潇
- 102.浅议机动车检验检测机构资质认定中对检测设备的评审 黄利君
- 105.计量科研机构“一院多地”管理工作浅析 詹彦杰

误差与不确定度

- 108.TUA-DN50A 型超声波流量计的不确定度分析 陈红 丁渊明
- 111.甲醇可燃气体报警仪校准结果不确定度评定 齐燕岭 赵立
- 114.车辆外廓尺寸自动测得值不确定度分析与评定 黄健 董宏静 孙树兵
- 117.环境试验设备温度、湿度参数偏差测得值不确定度评定之我见 韩刃 王亚东 陈丽蓉
- 119.量水尺校准方法及不确定度评定 路景飞 刘文动 王亚倩 赵晓园

计量科普

- 121.浅说古代计时文化

信息动态

- 3.市场监管总局公布 2021 年国家计量比对项目
- 107.核裂变研究成果颠覆旧理论

Medical Quality Control Technology

- Research on Temperature Calibration Devices for Polymerase Chain Reaction Analyzers Based on Wireless Sensor Network LV Maochao WANG Dawei GU Weiguo ZHU Juan(1)
Sleep Resting State Recognition Based on RR Interval of PPG WANG Jiaxin LI Min LAI Fujun(4)
Method Summary of Multifunction Patient Monitoring Instrument Entering Static Pressure Test Mode XIA Dezhii(9)

Research and Practice of Measuring Instruments

- Analysis of the Force Acting on the Joint of Mechanism with Driven Rubber Crank CHENG Shouguo(11)
Discussion on the Verification of Specified Mass for Piston Pressure Gauge Using Electronic Balance XU Xu HONG Bian LIU Bo FENG Qibing(13)
Experimental Study on Annealing of New High Temperature Platinum Resistance Thermometer WANG Haitao SUN Yunfei WEN Meng DONG Liang SUN Jianping(16)
Development of an Automatic Verification Device for Conductivity Instrument WEI Peng LIN Guohui FANG Jie(20)
Calibration of Accelerometer Sensitivity Amplitude WU Shanshan WANG Ningsha LIU Xingchen GAN Kui(23)
Analysis of Influence on Load Capacity in Self-lubricating Spherical Plain Bearings with Various Assembling Conditions CHEN Dehang LI Baofu(26)
Detection of Clamping Status of Steel Section of Tunnel Segment Based on Binocular Vision SHEN Xinru LI Ming WEI Qingyue ZHENG Zeng(30)
Development of On-line Measurement Equipment for the Cross-sectional Area of Large Diameter Flue XU Feng(33)
Research on Key Technology of Field Strength Tester Design Based on LabVIEW WANG Shuo(35)
Research and Implementation of An Electronic Bisector QU Huanyu WENG Xiaowei(39)
Adsorption and Determination for the Chlorine Ions in the Extracting Solution of Tobacco CHEN Xing JIN Jing(41)
Development and Verification of Gun Grating Caliper Calibration Device REN Shuhong ZHAO Yifan LI Yinghao FU Yu(44)
Study on the Minimum Bar Code Length Required for Digital Level Measurement SUN Yanfeng ZHOU Yingxi(48)
Algorithm Design of Pedometer GE Yuheng(51)
Development of Automatic Acquisition System for Indication Error of Liquid-in-glass Thermometers SHEN Jian LU Ju(54)

Measuring Method and Application

- Comparison Scheme and Implement of New Employees in Laboratory GAO Nan LI Jun XU Yue WU Zhenghua(57)
Design of Dynamic Calibration Method for Tacho-torque Measuring Device MAO Qinwei HE Jianxin(59)
Research on Real Time Measurement Method of Liquid Asphalt ZHANG Lu GAO Yan YANG Lihong ZHANG Yongbo DUAN Yongqi(62)
Development of Life Test Device and Method for Solar Water Heating Anti-freezing Zone LIU Nianbo CHEN Fenglin(65)
Disscussion of Temperature Instruments Requirements and Calibration Methods Basing on AMS2750 "Pyrometry" WU Jingwen GU Shanlin GAO Wei SUI Chengming LIU Xiaohan(68)
An Encryption Method Combining LabVIEW with Hardware of Hydraulic Test System ZHANG Jin XING Keli JIN Xiajie(72)
Comparison of the Merits and Demerits of Spectrophotometric COD meter for Standard Solution and Filters at Verification / Calibration DING Ping ZHAI Shengqiang Peng Xin WANG Lu YAN Zhiguo(74)
Spatial Distribution of Sound Intensity and Analysis of Hydrophone Sensitivity Calibration Error ZHANG Haisheng LUO Bin LI Yuewen WANG Dong SHAO Yangmeng LIANG Qing(78)
A Wearable Location Terminal Detection Method with Reproducible Scene CHEN Gong(81)
Discussion on Calibration Method of Air Flow Measuring Device of Air-tightness Testing Device for Building Exterior Windows LI Han LI Fei(83)
Study on On-line Monitoring and Prevention of Dust in Urban Construction CAI JiuHong ZHENG Zhanmin ZANG Chunhua(88)

Supervision and Administration of Metrological

- Difficulties and Suggestions of GB/T 18487.2-2017 Standard LIANG Guansheng HE Zhihui XU Dongping(91)
JJG 882-2019 "Pressure Transmitter" Verification Regulations for the Standard Requirements and Selection YANG Jinglei(95)
Research on Measurement Confirmation Mode of Scientific Research Measuring Equipment in Colleges GAO Tao HAN Mei GUO Hui(97)
Reflections on the Verification of Breath Alcohol Analyzer According to New Regulations LI Xiao(100)
Discussion on the Assessment of Testing Equipment in the Mandatory Approval of Motor Vehicle Inspection Body and Laboratory HUANG Lijun(102)

Analysis on the Management of "One Institute and Many Places" in Metrology Research Institutions ZHAN Yanjie(105)

Error and Uncertainty

- Analysis of Uncertainty of TUA-DN50A Ultrasonic Flowmeter CHEN Hong DING Yuanming(108)
Evaluation of Uncertainty of Calibration Result of Methanol Combustible Gas Alarm QI Yanling ZHAO Li(111)
Analysis and Evaluation of Uncertainty in Automatic Measurement of Vehicle Outer Dimensions HUANG Jian DONG Hongjing SUN Shubing(114)
Evaluation of Uncertainty in Measurement Results of Temperature and Humidity Parameters Deviation of Environmental Test Equipment HAN Ren WANG Yadong CHEN Lirong(117)
Study on Calibration Method and Evaluate the Measurement Uncertainty of the Water Gauge LU Jingfei LIU Wendong WANG Yaqian ZHAO Xiaoyuan(119)
Measurement Science (121~122)