

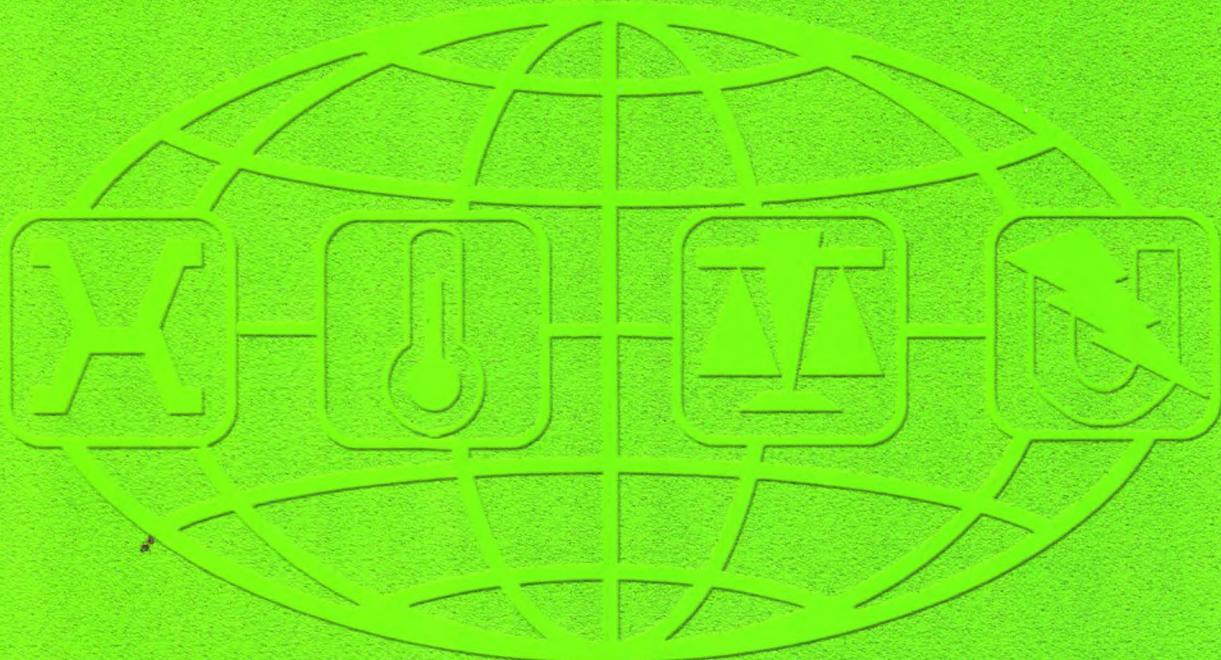
ISSN 1000-1158  
CODEN JIXUEU  
CN11-1864/TB

# 计量学报

JILIANG XUEBAO  
ACTA METROLOGICA SINICA

第 33 卷  
Vol.33

第 5 期  
No.5



2012

ISSN 1000-1158



中国计量测试学会

# ACTA METROLOGICA SINICA

(BIMONTHLY)

Vol. 33, No. 5, September 2012

## CONTENTS

- Large Range Self-sensing AFM Measurement System Based on Dual Feedback Measurement Model ..... GUO Tong, WANG Si-ming, WANG Long-long, CHEN Jin-ping, FU Xing, HU Xiao-tang (385)
- The Calibration of Camera Intrinsic Parameters in Digital Close-range Photogrammetry ..... GAN Xiao-chuan, HE Ming-zhao, YE Xiao-you (391)
- Application Research of Self-adaptation System on Single-frequency Laser Interferometer ..... HUANG Lei, MA Hong, MA Zhong-huan, YIN Zi (395)
- Research on Automatic Ultrasonic Waveform Tracking for Curved Surface Composite Parts with Variable Thickness ..... ZHENG Hui-feng, LV Jiang-Ming, YANG Ni, YANG Chen-long (400)
- Uncertainty Evaluation of Primary Reference Cell Calibration under Outdoor Conditions ..... LIU Hai-tao, SANG Shi-yu, ZHAI Yong-hui (405)
- Study and Establishment for the Shock Acceleration Standard Based on Drop Hammer ..... HU Hong-bo, YU Mei (411)
- Two-dimentional Thermal Analysis of Adiabatic Vacuum Chamber with ANSYS Finite Element Simulation ..... YANG Li-feng, LUO Zhi-yong, XU Ai-hua (416)
- A New Automatic Measurement System for Testing Weighing Instruments ..... WANG Jian, ZHONG Rui-lin, CAI Chang-qing, et al (419)
- Study on Measurement Standard for Calibration Device of Static Friction Coefficient Standard of Communication Conduct ..... GUO Dong-hua, MA Jun, MA Xue-feng (423)
- The Absolute Density Determination for A Single Crystal Silicon Sphere ..... LUO Zhi-yong (428)
- Free Field Reciprocity Calibration of LS2F Microphone in High Frequency ..... HE LONG-biao, WANG Bing-xing, WU Yun, NIU Feng, ZHONG Bo (432)
- ARJ Aircraft Noise Measurement from Fly-over Test ..... CHEN Tao, HOU Hong, CHEN Zhi-fei, et al (437)
- Study on the Measurement Standard and Traceability of 10kV/1000A High-voltage Electric Energy ..... ZHENG Zhi-shou, CHEN Xi-wu, QI Xiao-jian, et al (441)
- A New Arc Fault Detection Method Based on Wavelet Singularity Analysis and the Achievement on LabWindows/CVI ..... ZHENG De-zhong, YU Qiong-fang, YANG Yi, DONG Ai-hua (446)
- Analysis of Parameters of  $\lambda$  and  $\mu$  for Fractional Order PI <sup>$\lambda$</sup> D <sup>$\mu$</sup>  Controller ..... LIANG Tao-nian, CHEN Jian-jun, SHANG Bao-wei, WANG Yan (452)
- Optimized Design for Piezoelectric Layer of Anti-electromagnetism Interference ..... SHI Xiao-ling, YUAN Shen-fang, QIU Lei (457)
- International Key Comparison CCQM-K67 :Surface Analysis Measurement of Composition for Fe-Ni Alloy Film ..... WANG Hai, SONG Xiao-ping, CHENG Bin, FENG Ying (463)
- Development of Genetically Modified Rice TT51-1 Seed Powder Reference Materials ..... SUI Zhi-Wei, YU Xiao-Bo, WANG Jing, et al (467)
- Control Parameters Optimum of Control Charts for Measurement Process Control Using Bootstrap Entropy Fusion Model ..... SUN Qun, ZHAO Ying, PAN Quan-ke (472)
- An Iterative Algorithm for Scaled Total Least Squares Estimation ..... LU Tie-ding, ZHOU Shi-jian, ZHANG Li-ting, WANG Le-yang (477)

# 计量学报

第33卷 第5期 2012年9月

## 目 次

### 基于双反馈模式的大范围自感应 AFM 测量系统

- ..... 郭 彤, 王思明, 王龙龙, 陈津平, 傅 星, 胡小唐 (385)  
数字近景摄影测量中相机内参数校准 ..... 甘晓川, 赫明钊, 叶孝佑 (391)  
自适应系统在单频激光干涉仪上的应用研究 ..... 黄 雷, 马 宏, 马钟焕, 尹 子 (395)  
变厚度曲面复合工件超声波形自动跟踪研究 ..... 郑慧峰, 吕江明, 杨 妮, 杨辰龙 (400)  
光伏标准电池室外一级标定的不确定度分析 ..... 刘海涛, 桑识宇, 翟永辉 (405)  
落锤式冲击加速度标准装置的研究与建立 ..... 胡红波, 于 梅 (411)  
ANSYS 有限元法在测长绝热真空腔二维热分析中的应用 ..... 杨丽峰, 罗志勇, 徐爱华 (416)  
一种新型衡器自动测量系统 ..... 王 健, 钟瑞麟, 蔡常青, 张 跃, 丁京鞍, 姚 弘, 王肖磊 (419)  
通信管道静摩擦系数标准器检定装置计量标准研究 ..... 郭东华, 马 骏, 马学锋 (423)  
单晶硅球密度的绝对测量 ..... 罗志勇 (428)  
LS2F 传声器的高频自由场互易校准 ..... 何龙标, 王炳惺, 吴 云, 牛 锋, 钟 波 (432)  
ARJ 客机过顶飞行过程噪声的实验研究 ..... 陈 涛, 侯 宏, 陈志菲, 赵江楠 (437)  
10 kV/1000 A 高压电能计量标准及其量值溯源的研究

- ..... 郑志受, 陈希武, 漆小建, 张志高, 王立新, 边海龙, 瞿清昌 (441)  
一种新型基于小波奇异性分析的故障电弧检测方法的 LabWindows/CVI 实现

- ..... 郑德忠, 余琼芳, 杨 艺, 董爱华 (446)  
分数阶 PI<sup>λ</sup>D<sup>μ</sup> 控制器参数  $\lambda$  和  $\mu$  分析 ..... 梁涛年 陈建军, 尚保卫, 王 妍 (452)  
抗电磁干扰压电夹层优化设计 ..... 石晓玲, 袁慎芳, 邱 雷 (457)  
Fe-Ni 合金薄膜组成表面分析测量国际关键比对 CCQM-K67

- ..... 王 海, 宋小平, 程 斌, 冯 颖 (463)  
转基因水稻 TT51-1 标准物质的研制

- ..... 隋志伟, 余笑波, 王 晶, 李 亮, 傅博强, 蔡 超, 董莲华, 米 薇, 杨立桃 (467)  
测量过程控制图参数的自助最大熵融合优化 ..... 孙 群, 赵 颖, 潘全科 (472)  
标度总体最小二乘的迭代解法 ..... 鲁铁定, 周世健, 张立亭, 王乐洋 (477)

期刊基本参数: CN11 - 1864/TB \* 1980 \* b \* 16 \* 96 \* zh \* P \* ¥ 20.00 \* 2000 \* 20 \* 2012 - 05

本刊为 ELSEVIER《Scopus》数据库收录的中国科技期刊。

中国计量学院为本刊支持协作单位。