

光学精密工程

Guangxue Jingmi Gongcheng

第 21 卷 第 8 期 2013 年 8 月

目 次

· 现代应用光学 ·

- 斯托克斯椭偏仪的非线性最小二乘拟合偏振定标 侯俊峰,王东光,邓元勇,张志勇,孙英姿(1915)
- 用简并四波混频法实现铷、铯、钾的同位素痕量测量 ... 程雪梅,任兆玉,尹逊莉,费 坤,白晋涛(1923)
- 用计算全息图校正非球面的畸变 高松涛,王高文,张 健,隋永新,杨怀江(1929)
- 飞秒激光全息并行加工中的多焦点均一性 苏亚辉,汪金礼,杨 亮,李家文,黄文浩(1936)
- 碳室约束对激光等离子体辐射的增强效应 陈金忠,马瑞玲,陈振玉,孙 江,李 旭(1942)
- 具有低空气隙敏感度的雪花单元频率选择表面 王岩松,高劲松,陈 新,赵晶丽(1949)
- 经济型大尺寸激光自动坐标测量系统 时 光,张福民,曲兴华(1957)
- 流动腐蚀方式对石英光纤湿腐蚀特性的影响 钟年丙,王永忠,廖 强,朱 恂,陈 蓉(1966)
- 应用光程校正空间法提升近红外无创生化分析模型性能 高洪智,卢启鹏,丁海泉,陈思唯(1974)

· 微纳技术与精密机械 ·

- 层析成像在冰水两相流参数测量中的应用 张建国,马福昌,窦银科(1981)
- 疏水网覆盖的开放微管道中的液体输运 马增帅,叶雄英,商院芳,杜 敏(1988)
- 弛豫过程中的纳米析出及贝氏体组织的细化 苑少强,张晓娟,郝 斌,张济山(1995)
- 基于运动学支撑的透镜光学表面面形及其复现性 于新峰,巩 岩,倪明阳,秦 硕(2000)
- 微纳卫星姿控软件实时测试系统 董恺琛,赵开春,赵鹏飞,尤 政(2008)
- CoAl₂O₄ 粉体制备及在染料敏化太阳电池中的应用 ... 胡志强,秦 颖,姜妍彦,郝洪顺,高 宏(2016)
- 投影微分法实现多光谱成像仪的自动对焦控制
..... 张艳超,孙 强,赵 建,李也凡,韩希珍,白 晶(2023)
- 耦合场中小尺寸碳纳米管的组合扭转屈曲行为 姚小虎,陈 达,孙玉刚,欧智成,李函洲(2031)
- 电动舵机伺服系统非线性辨识及补偿 肖前进,贾宏光,章家保,韩雪峰,席 睿(2038)

模具钢表面 Co/TiC 熔覆层的组织与高温磨损性能

..... PHAM THI HONGNGA,刘洪喜,张晓伟,王传琦,蒋业华(2048)

天文光学望远镜摩擦驱动滑移动态检测与修正..... 杨世海,王国民(2056)

铜互连兆声清洗中结构损伤预测的有限元分析..... 黄雅婷,孟春玲,董秀萍,路新春(2064)

超微量点胶方法与实验..... 张 勤,徐 策,徐晨影,青山尚之(2071)

液浮转子式陀螺的间隙流场 唐 飞,师玉鹏,王晓浩(2079)

脉冲密度反馈对力平衡微机械陀螺的影响..... 杨 亮,苏 岩,裘安萍,夏国明(2087)

· 信息科学 ·

基于快速方向预测的高分辨率遥感影像压缩..... 张立保,丘兵昌(2095)

用于目标识别的 PCA-SC 形状匹配算法 黄伟国,顾 超,朱忠奎(2103)

多重计算全息水印技术..... 马建设,任振波,苏 萍,夏飞鹏(2111)

面向田间籽棉成熟度判别的二种特征选择算法比较 王 玲,刘德营,姬长英(2121)

基于统计特征中心对称局部二值模式的虹膜识别 李欢利,郭立红,李小明,王心醉,董月芳(2129)

基于两阶段集成支持向量机的前列腺肿瘤识别..... 周 涛,陆惠玲,陈志强,马 苗(2137)

应用尺度不变特征变换的多源遥感影像特征点匹配 刘志文,刘定生,刘 鹏(2146)

离轴三反消像散多光谱相机调焦系统设计..... 吕世良,刘金国,贾 平,徐 东(2154)

微流控实时荧光聚合酶链式反应成像非均匀性的校正

..... 刘 勇,钱鸿鹤,朱 灵,赵树弥,张 龙(2161)

地球静止轨道面阵凝视成像系统分时积分抑振技术 陶小平,罗 霄,薛栋林(2169)

精确质量控制的遥感图像 JPEG2000 压缩方法..... 宋蓓蓓,孙文方(2180)

融合特征相互关系的视网膜微动脉瘤提取 赖小波,刘华山,方纯洁(2187)

遥感相机动态调制传递函数与时间延迟积分 CCD 行周期误差的关系

..... 郭汉洲,吕恒毅,曲利新(2195)

利用线性预测与查表法的高光谱图像压缩 宋金伟,张忠伟,陈晓敏(2201)

Optics and Precision Engineering

Vol. 21 No. 8 Aug. 2013

Contents

Modern Applied Optics

- Nonlinear least-square fitting polarization calibration of Stokes ellipsometer
..... *HOU Jun-feng, WANG Dong-guang, DENG Yuan-yong, ZHANG Zhi-yong, SUN Ying-zi* (1915)
- Trace measurement of isotopes for rubidium, cesium and potassium with degenerate four-wave mixing method
..... *CHENG Xue-mei, REN Zhao-yu, YIN Xun-li, FEI Kun, BAI Jin-tao* (1923)
- Correction of distortion in asphere testing with computer-generated hologram
..... *GAO Song-tao, WANG Gao-wen, ZHANG Jian, SUI Yong-xin, YANG Huai-jiang* (1929)
- Uniformity of multi-foci for holographic femtosecond laser parallel fabrication
..... *SU Ya-hui, WANG Jin-li, YANG Liang, LI Jia-wen, HUANG Wen-hao* (1936)
- Enhancement effect of carbon chamber confinement on laser plasma radiation
..... *CHEN Jin-zhong, MA Rui-ling, CHEN Zhen-yu, SUN Jiang, LI Xu* (1942)
- Snow loop element frequency selective surface with low sensitivity to air gaps
..... *WANG Yan-song, GAO Jin-song, CHEN Xin, ZHAO Jing-li* (1949)
- Economical type large-scale laser automatic coordinate measuring system
..... *SHI Guang, ZHANG Fu-min, QU Xing-hua* (1957)
- Effect of flow etching method on wet etching properties of silica optical fiber
..... *ZHONG Nian-bing, WANG Yong-zhong, LIAO Qiang, ZHU Xun, CHEN Rong* (1966)
- Improvement of model performance for near-infrared non-invasive biochemical analysis by pathlength correction
space method *GAO Hong-zhi, LU Qi-peng, DING Hai-quan, CHEN Si-wei* (1974)

Micro/Nano Technology and Fine Mechanics

- Application of electrical resistance tomography to ice-water two-phase flow parameter measurement
..... *ZHANG Jian-guo, MA Fu-chang, DOU Yin-ke* (1981)
- Fluidic transportation of open microchannels with hydrophobic mesh
..... *MA Zeng-shuai, YE Xiong-ying, SHANG Yuan-fang, DU Min* (1988)
- Nano-size precipitation during relaxation and refinement of bainite
..... *YUAN Shao-qiang, ZHANG Xiao-juan, HAO Bin, ZHANG Ji-shan* (1995)
- Optical surface figure of lens under kinematic mount apparatus and its reproducibility
..... *YU Xin-feng, GONG Yan, NI Ming-yang, QIN Shuo* (2000)
- Real-time testing system for attitude control software of micro-nano satellite
..... *DONG Kai-chen, ZHAO Kai-chun, ZHAO Peng-fei, YOU Zheng* (2008)
- Preparation of spinel CoAl_2O_4 nanopowders and their applications to DSSC
..... *HU Zhi-qiang, QIN Ying, JIANG Yan-yan, HAO Hong-shun, GAO Hong* (2016)
- Auto-focusing adjustment of multi-spectral imager by differential projection method
..... *ZHANG Yan-chao, SUN Qiang, ZHAO Jian, LI Ye-fan, HAN Xi-zhen, BAI Jing* (2023)

- Combined torsional buckling of small size carbon nanotubes in multi-field coupling
 YAO Xiao-hu, CHEN Da, SUN Yu-gang, OU Zhi-cheng, LI Han-zhou (2031)
- Identification and compensation of nonlinearity for electromechanical actuator servo system
 XIAO Qian-jin, JIA Hong-guang, ZHANG Jia-bao, HAN Xue-feng, XI Rui (2038)
- Microstructures and high-temperature wear behaviors of Co/TiC laser coatings on die steel
 PHAM Thi Hongnga, LIU Hong-xi, ZHANG Xiao-wei, WANG Chuan-qi, JIANG Ye-hua (2048)
- Detection and correction of slippage from friction drive for astronomical optical telescope
 YANG Shi-hai, WANG Guo-min (2056)
- Finite element analysis of structure failure in Cu interconnect megasonic cleaning
 HUANG Ya-ting, MENG Chun-ling, DONG Xiu-ping, LU Xin-chun (2064)
- Approach and experiment of ultra-micro dispensing
 ZHANG Qin, XU Ce, XU Chen-ying, AOYAMA Hisayuki (2071)
- Gap flow field of liquid floating rotor gyro TANG Fei, SHI Yu-peng, WANG Xiao-hao (2079)
- Effect of pulse density feedback on force balance micro-machined gyroscope
 YANG Liang, SU Yan, QIU An-ping, XIA Guo-ming (2087)

Information Sciences

- Remote sensing image compression based on fast direction prediction ZHANG Li-bao, QIU Bing-chang (2095)
- PCA-SC shape matching for object recognition HUANG Wei-guo, GU Chao, ZHU Zhong-kui (2103)
- Multiple watermarking technique based on computer-generated hologram
 MA Jian-she, REN Zhen-bo, SU Ping, XIA Fei-peng (2111)
- Comparison of two feature selection algorithms oriented to raw cotton ripeness discrimination
 WANG Ling, LIU De-ying, JI Chang-ying (2121)
- Iris recognition based on SCCS-LBP
 LI Huan-Li, GUO LI-Hong, LI Xiao-Ming, WANG Xin-Zui, DONG Yue-Fang (2129)
- Prostate tumor recognition based on two-stage integrating SVM
 ZHOU Tao, LU Hui-ling, CHEN Zhi-qiang, MA Miao (2137)
- SIFT feature matching algorithm of multi-source remote image ... LIU Zhi-wen, LIU Ding-sheng, LIU Peng (2146)
- Design of focusing system for multispectral camera with off-axis TMA
 LÜ Shi-liang, LIU Jin-guo, JIA Ping, XU Dong (2154)
- Nonuniformity correction for fluorescence imaging of microfluidic real-time PCR
 LIU Yong, QIAN Hong-hu, ZHU Ling, ZHAO Shu-mi, ZHANG Long (2161)
- Vibration suppression based on multiple integration for staring imaging system in geostationary orbit
 TAO Xiao-ping, LUO Xiao, XUE Dong-lin (2169)
- JPEG2000 compression for remote sensing images with precise quality control
 SONG Bei-bei, SUN Wen-fang (2180)
- Retinal microaneurysm extraction by fusing relationship among features
 LAI Xiao-bo, LIU Hua-shan, FANG Chun-jie (2187)
- Relation of line transfer period error and dynamic MTF of TDICCD in remote sensing camera
 GUO Han-zhou, LÜ Heng-yi, QU Li-xin (2195)
- Hyperspectral imagery compression via linear prediction and lookup tables
 SONG Jin-wei, ZHANG Zhong-wei, CHEN Xiao-min (2201)