

光学精密工程

Guangxue Jingmi Gongcheng

第 19 卷 第 10 期 2011 年 10 月

目 次

· 现代应用光学 ·

大功率垂直腔面发射激光器列阵的串接结构

..... 史晶晶, 秦 莉, 刘 迪, 彭航宇, 曹军胜, 杨 晔, 宁永强, 刘 云, 王立军(2309)

兼具高次谐波抑制的三镜偏振器..... 周洪军, 王冠军, 郑津津, 霍同林(2314)

3~5 μm 红外焦平面阵列的辐射定标..... 李 宁, 杨词银, 曹立华, 郭立红(2319)

变焦跟踪曲线在对焦中的应用 罗 钧, 孙 力, 闵志盛(2326)

利用电场与磁场耦合制备微型化频率选择表面 徐念喜, 高劲松, 梁凤超, 赵晶丽, 冯晓国(2333)

可激发等离子体表面波的离子交换单模条波导 刘 瑾, 陈抱雪, 杨海马(2342)

干涉仪成像畸变引起测量误差的校正方法 刘满林, 杨 旺, 许伟才(2349)

镀膜光纤探针近场捕获的模拟与实验 刘炳辉, 杨立军, 王 扬(2355)

用激光外差技术高精度测量目标速度 刘立生, 张合勇, 郭 劲, 刘洪波, 赵 帅(2366)

全息方法制备嵌段式液晶弹性体..... 宋 静, 栗宏亮, 彭增辉, 李文萃(2373)

超快电子脉冲的时域压缩 田进寿, 雷晓红, 温文龙, 徐向晏, 王俊锋(2379)

激光外差干涉中声光器件的非均匀声场特性..... 霍 雷, 曾晓东(2386)

强力输送带 X 光无损检测仪的研制 荣 锋, 苗长云, 徐 伟(2393)

· 微纳技术与精密机械 ·

低功率水工质脉冲等离子体推进器的工作特性 朱 平, 侯丽雅, 章维一(2402)

基于扩张状态观测器的炮控系统串联滑模控制·····	马晓军,袁 东,李匡成,魏曙光(2409)
基于偏振光传感器的移动机器人导航实验·····	褚金奎,陈文静,王洪青,戎成功(2419)
月基极紫外相机光机结构设计·····	王 智,李朝辉(2427)
双经纬仪交会测量火炮调炮精度的误差分析与抑制 ·····	孙泽林,王 昭,翟唤春(2434)
光电望远镜伺服系统速度环的自抗扰控制·····	王 帅,李洪文,孟浩然,吴庆林(2442)
基圆盘与导轨间滑移对双盘式渐开线测量仪测量精度的影响 ·····	娄志峰,王立鼎,王晓东,马 勇(2450)
Love 波传感器的性能分析与实验 ·····	苗 圃,李 锋,张 平,刘永顺,毕晓猛,吴一辉(2457)
基于压电作动器的直线电机及其高效驱动·····	潘 松,黄卫清,王 寅,赵淳生(2464)
· 信息科学 ·	
改进的抗全仿射尺度不变特征变换图像匹配算法·····	贺柏根,朱 明(2472)
基于聚类分析与支持向量机模型的缸盖座圈图像判别 ·····	张仁杰,庄松林,臧道青(2478)
基于对比度敏感度的无参考图像清晰度评价 ·····	范媛媛,沈湘衡,桑英军(2485)
多步变权重复合的通用星点聚心 ·····	刘太阳,王仕成,刘志国(2494)
TDI CCD 电荷转移对遥感相机成像质量的影响 ·····	王德江,董 斌,李文明,金灿强(2500)
基于血管内超声图像自动识别易损斑块·····	张 麒,汪源源,马剑英,钱菊英,施 俊,严壮志(2507)
基于极线校正的快速相位立体匹配·····	姜宏志,赵慧洁,梁宵月,李 冬(2520)
天文观测 CCD 相机中 Smear 效应的消除 ·····	孙瑾秋,周 军,朱 宇,张 臻(2526)
基于神经网络边缘提取的工业 CT 图像与 CAD 模型的比对检测·····	曾 理,何洪举,张志波(2533)
金相图像的晶界恢复与重建·····	蒋明星,陈国华(2541)

Optics and Precision Engineering

Vol. 19 No. 10 Oct. 2011

Contents

Modern Applied Optics

- High-power vertical cavity surface emitting laser array in series structure
..... *SHI Jing-jing, QIN Li, LIU Di, PENG Hang-yu, CAO Jun-sheng, YANG Ye, NING Yong-qiang, LIU Yun, WANG Li-jun* (2309)
- Triple reflector polarizer integrated with suppression of higher order harmonics
..... *Zhou Hong-jun, Wang Guan-jun, Zheng Jin-jin, Huo Tong-lin* (2314)
- Radiance calibration for 3~5 μm infrared focal plane array
..... *LI Ning, YANG Ci-Yin, CAO Li-Hua, GUO Li-Hong* (2319)
- Application of zoom tracking curves in focusing *LUO Jun, SUN Li, MIN Zhi-sheng* (2326)
- Fabrication of miniaturized frequency selective surfaces utilizing coupling between electric and magnetic fields
..... *XU Nian-xi, GAO Jin-song, LIANG Feng-chao, ZHAO Jing-li, FENG Xiao-guo* (2333)
- Ion-exchange single-mode stripe waveguide for excitation of surface plasma wave
..... *LIU Jin, CHEN Bao-xue, YANG Hai-ma* (2342)
- Calibration of measuring error caused by interferometric imaging distortion
..... *LIU Man-lin, YANG Wang, XUE Wei-cai* (2349)
- Simulation and experiments of near-field trapping using a metal-coated optical fiber probe
..... *LIU Bing-hui, YANG Li-jun, WANG Yang* (2355)
- High precise measurement of target velocity using laser heterodyne technology
..... *LIU Li-sheng, ZHANG He-yong, GUO Jin, LIU Hong-bo, ZHAO Shuai* (2366)
- Fabrication of triblock liquid crystal elastomer by holography
..... *SONG Jing, LI Hong-liang, PENG Zeng-hui, LI Wen-cui* (2373)
- Compression of electron pulses in temporal domain
..... *TIAN Jin-shou, LEI Xiao-hong, WEN Wen-long, XU Xiang-yan, WANG Jun-feng* (2379)
- Non-uniform sound field distribution of acousto-optic device in laser heterodyne interferometry
..... *HUO Lei, ZENG Xiao-dong* (2386)
- Development of non-destructive tester for steel cord conveyor belts
..... *RONG Feng, MIAO Chang-yun, XU Wei* (2393)
- ### Micro/Nano Technology and Fine Mechanics
- Work characteristics of low power water propellant pulsed plasma thruster
..... *ZHU Ping, HOU Li-ya, ZHANG Wei-yi* (2402)

Series sliding mode control for gun control system based on extended state observer

..... MA Xiao-jun, YUAN Dong, LI Kuang-cheng, WEI Shu-guang (2409)

Mobile robot navigation tests with polarization sensors

..... CHU Jin-kui, CHEN Wen-jing, Wang Hong-qing, RONG Cheng-gong (2419)

Design of optical-mechanical structure for lunar-based extreme ultraviolet camera WANG Zhi, LI Zhao-hui (2427)

Analysis and control of error on two theodolite intersection measurement for gun rotated accuracy of artillery

..... SUN Ze-lin, WANG Zhao, ZHAI Huan-chun (2434)

Active disturbance rejection controller for speed-loop in telescope servo system

..... WANG Shuai, LI Hong-wen, MENG Hao-ran, WU Qing-lin (2442)

Analysis of slippage between discs and rail in involute measuring instrument with double-discs

..... LOU Zhi-feng, WANG Li-ding, WANG Xiao-dong, MA Yong (2450)

Performance analysis and experiment of Love wave sensor

..... MIAO Pu, LI Feng, ZHANG Ping, LIU Yong-shun, BI Xiao-meng, WU Yi-hui (2457)

High efficiency driving of linear motor based on piezoelectric actuator

..... PAN Song, HUANG Wei-qing, WANG Yin, ZHAO Chun-sheng (2464)

Information Sciences

Improved fully affine invariant SIFT-based image matching algorithm HE Bai-gen, ZHU Ming (2472)

Estimation of gap width of cylinder socket sleeve based on clustering analysis and SVM

..... ZHANG Ren-jie, ZHUANG Song-lin, ZANG Dao-qing (2478)

No reference image sharpness assessment based on contrast sensitivity

..... FAN Yuan-yuan, SHEN Xiang-heng, SANG Ying-jun (2485)

Universal star centroiding with stepping variant weighting integration

..... LIU Tai-yang, WANG Shi-cheng, LIU Zhi-guo (2494)

Influence of TDI CCD charge transfer on imaging quality in remote sensing system

..... WANG De-jiang, DONG Bin, LI Wen-ming, JIN Can-qiang (2500)

Automatic identification of vulnerable plaques based on intravascular ultrasound images

..... ZHANG Qi, WANG Yuan-yuan, MA Jian-ying, QIAN Ju-ying, SHI Jun, YAN Zhuang-zhi (2507)

Phase-based stereo matching using epipolar line rectification

..... JIANG Hong-zhi, ZHAO Hui-jie, LIANG Xiao-Yue, LI Dong (2520)

Smear removal of CCD camera in astronomic observation ... SUN Jin-qiu, ZHOU Jun, ZHU Yu, ZHANG Zhen (2526)

Comparison inspection between ICT images & CAD model based on edge extracting by neural networks

..... ZENG Li, HE Hong-ju, ZHANG Zhi-bo (2533)

Restoration and reconstruction of grain boundary in metallographical image

..... JIANG Ming-xing, CHEN Guo-hua (2541)