

光学精密工程

Guangxue Jingmi Gongcheng

第 20 卷 第 10 期 2012 年 10 月

目 次

· 现代应用光学 ·

大面阵中波红外连续变焦光学系统设计 骆守俊,何伍斌,李文虎,徐明轩(2117)

使用优化的固着磨料磨盘全口径加工碳化硅反射镜 王 旭(2123)

相干和多模热光场的光子统计实验 张合勇,赵 帅,郭 劲,王挺峰,刘海波(2132)

结合近红外光谱法的肝血流参数测量 张晓枫,刘光达,辛桂杰,焦 阳,徐国忠(2140)

高功率 InGaAs/GaAsP 应变量子阱垂直腔面发射激光器列阵

..... 刘 迪,宁永强,张金龙,张 星,王立军(2147)

痕量 N₂O 气体检测系统的设计与实现 郑守国,李 森,张 健,张浩东,胡泽林(2154)

基于 NiTi 合金丝的反射镜柔性支撑结构的应力补偿

..... 曹乃亮,徐 宏,辛宏伟,袁 野,李志来,杨会生(2161)

可见-近红外光谱测定血红蛋白的等效波段选择 刘振尧,潘 涛(2170)

用于红外晶体双折射测量的单 1/4 波片法 唐玉国,何 森,崔继承,巴音贺希格,陈少杰(2176)

线阵光学降水现象自动测量系统 高太长,江志东,刘西川,苏小勇,翟东力(2184)

· 微纳技术与精密机械 ·

间歇工作图像胶囊内窥镜的设计与实验 刘 刚,颜国正,刘 华,朱柄全(2192)

陶瓷微热板阵列式可燃气体传感器 薛严冰,唐祯安(2200)

大口径轻量化主镜边缘侧向支撑的优化设计

..... 范 磊,张景旭,吴小霞,王富国,陈夫林,杨洪波(2207)

微隧穿式陀螺仪检测模态的线性二次高斯控制..... 刘益芳,王凌云,孙道恒,吴德志(2214)

嵌入式自动聚焦摄像模组控制系统的设计 马建设,李合银,程雪岷,林家用,张志清(2222)

反射镜无热装配中胶层厚度的计算及控制..... 刘 强,何 欣,张 峰,陈思唯(2229)

多方向金属光栅偏振器及在偏振导航中的应用..... 褚金奎,王志文,张英杰,王寅龙(2237)

基于 AIBN 材料的微流体驱动用微型正压源 栗大超,姬永婕,于海霞,梁文帅,徐可欣(2245)

驱动电压波形修圆对微流体脉冲惯性力和驱动效果的影响 王洪成,侯丽雅,章维一(2251)

· 信息科学 ·

解决大幅面 CCD 相机三色分离的方法..... 刘 霖,王 平,刘娟秀,叶玉堂,贾宏宇(2260)

预测扫描提前跳转的电子稳像方法 王 鹏,赵跃进,孔令琴,李 冰,董立泉(2268)

基于全相位谱分析的傅里叶望远镜外场实验数据处理 于树海,王建立,董 磊,刘欣悦(2275)

压缩传感用于极弱光计数成像 俞文凯,姚旭日,刘雪峰,翟光杰,赵 清(2283)

视觉测量中可纠错的编码点识别及提取 杨 剑,韩建栋,秦品乐(2293)

稳定运动物体视频的特征方法 邱家涛,李玉山,初秀琴,刘 洋,倪乐真(2300)

自适应卡尔曼滤波在无刷直流电机系统辨识中的应用..... 魏 彤,郭 蕊(2308)

基于 Otsu 准则和直线截距直方图的阈值分割 何志勇,孙立宁,黄伟国,陈立国(2315)

全球陆地光学遥感影像获取技术与应用 王兴玲,刘龙飞,于 钢,雷 宇,陶 亮(2324)

Optics and Precision Engineering

Vol. 20 No. 10 Oct. 2012

Contents

Modern Applied Optics

- Design of middle infrared continuous zoom optical system with a large FPA
..... LUO Shou-jun, HE Wu-bin, LI Wen-hu, XU Ming-xuan(2117)
- Fabrication of SiC mirror in full aperture with optimized fixed abrasive polishing pad WANG Xu(2123)
- Experiment of coherent and multi-mode thermal light statistics
..... ZHANG He-yong, ZHAO Shuai, GUO Jin, WANG Ting-feng, LIU Hai-bo(2132)
- Measurement of liver blood flow parameters combined with near-infrared spectroscopy
..... ZHANG Xiao-feng, LIU Guang-da, XIN Gui-jie, JIAO Yang, XU Guo-zhong(2140)
- High-power InGaAs/GaAsP strained quantum well vertical-cavity surface-emitting laser array
..... LIU Di, NING Yong-qiang, ZHANG Jin-long, ZHANG Xing, WANG Li-jun(2147)
- Design and implementation of trace N₂O detection system
..... ZHENG Shou-guo, LI Miao, ZHANG Jian, ZHANG Hao-dong, HU Ze-lin(2154)
- Stress compensation of flexible supporting structures for mirrors using NiTi shape memory alloy
..... CAO Nai-liang, XU Hong, XIN Hong-wei, YUAN Ye, LI Zhi-lai, YANG Hui-sheng(2161)
- Equivalent waveband selection of VIS-NIR spectroscopic measurement for hemoglobin
..... LIU Zhen-yao, PAN Tao(2170)
- Senamont based measuring method for birefringence of infrared crystal
..... TANG Yu-guo, HE Miao, CUI Ji-cheng, Bayanheshig, CHEN Shao-jie(2176)
- Optical precipitation auto-measurement system based on linear image sensor
..... GAO Tai-chang, JIANG Zhi-dong, LIU Xi-chuan, SU Xiao-yong, ZHAI Dong-li(2184)

Micro/Nano Technology and Fine Mechanics

- Design and experiment of intermittent working image capsule endoscopy
..... LIU Gang, YAN Guo-zheng, LIU Hua, ZHU Bing-quan(2192)
- Gas sensor array based on ceramic micro-hotplate for flammable gas detection
..... XUE Yan-bing, TANG Zhen-an(2200)
- Optimum design of edge-lateral support for large-aperture lightweight primary mirror
..... FAN Lei, ZHANG Jing-xu, WU Xiao-xia, WANG Fu-guo, CHEN Fu-lin, YANG Hong-bo(2207)

LQG control for sensing mode of micro tunneling gyroscope

..... LIU Yi-fang, WANG Ling-yun, SUN Dao-heng, WU De-zhi(2214)

Control system for embedded auto-focusing camera module

..... MA Jian-she, LI He-yin, CHENG Xue-min, LIN Jia-yong, ZHANG Zhi-qing(2222)

Calculation and control of adhesive layer in reflector athermal mount

..... LIU Qiang, HE Xin, ZHANG Feng, CHEN Si-wei(2229)

Multi-orientated wire-grid polarizer and its application to polarization navigation

..... CHU Jin-kui, WANG Zhi-wen, ZHANG Ying-jie, WANG Yin-long(2237)

Micro positive pressure generator based on AIBN for driving micro fluid

..... LI Da-chao, JI Yong-jie, YU Hai-xia, LIANG Wen-shuai, Xu Ke-xin(2245)

Influence of rounded driving voltage waves on micro-fluidic pulse inertial force and driving effects

..... WANG Hong-cheng, HOU Li-ya, ZHANG Wei-yi(2251)

Information Sciences

Improved method to solve color separation for large format CCD camera

..... LIU Lin, WANG Ping, LIU Juan-xiu, YE Yu-tang, JIA Hong-yu(2260)

Scanning image stabilizing algorithm: Predicting scanning motion and jumping in advance

..... WANG Peng, ZHAO Yue-jin, KONG Ling-qin, LI Bing, DONG Li-quan(2268)

Field experiment data processing of Fourier telescopy based on all phase spectrum analysis

..... YU Shu-hai, WANG Jian-li, DONG Lei, LIU Xin-yue(2275)

Compressed sensing for ultra-weak light counting imaging

..... YU Wen-kai, YAO Xu-ri, LIU Xue-feng, ZHAI Guang-jie, ZHAO Qing(2283)

Correcting error on recognition of coded points for photogrammetry

..... YANG Jian, HAN Jian-dong, QIN Ping-le(2293)

Feature-based approach for stabilizing videos with moving objects

..... QIU Jia-tao, LI Yu-shan, CHU Xiu-qin, LIU Yang, NI Le-zhen(2300)

Application of adaptive Kalman filtering to system identification of brushless DC motor

..... WEI Tong, GUO Rui(2308)

Thresholding segmentation algorithm based on Otsu criterion and line intercept histogram

..... HE Zhi-yong, SUN Li-ning, HUANG Wei-guo, CHEN Li-guo(2315)

Global optical image acquisition technology and its applications

..... WANG Xing-ling, LIU Long-fei, YU Gang, LEI Yu, TAO Liang(2324)