

目 次

光电系统与设计

- 戈壁地区天空背景光谱研究 谭碧涛, 李艳娜, 刘玮峰, 等(1)
镜反射式弹丸追踪摄影技术研究 宋玉贵, 孙 帅(5)
分离变量法的瞬态高温实验研究 贾晓雯, 姜三平, 郝晓剑, 等(9)
美国天基光电侦察系统的发展分析 朱秀丽, 崔福洪(12)
国外反狙击手光电探测技术与装备 石 岚, 王 宏(16)
高超音速飞行器红外探测预警分析 王忆锋, 陈树勤(21)
海面激光大气衰减变化规律的初步研究 高文静, 罗振莹, 王 垒(23)
基于 LabVIEW 的激光光斑照度分布检测方法 刘姜伟, 焦 洋, 时家明, 等(27)
海面岛礁背景下舰船红外自动识别技术研究 何友金, 毛剑英, 谭 伟(31)
基于片光源照明成像的水中群气泡特性测量 张建伟, 杨坤涛, 王江安, 等(35)

光电器件与材料

- 高品质因数的微波光子滤波器分析 安丽婧, 裴 丽, 祁春慧, 等(42)
室温工作的全固态 Tm:YAP 激光器 张晓娟, 王立新, 蔡 军, 等(46)
降低迟滞误差的光纤光栅传感器的研究 王宏亮, 宋 娟, 李 明, 等(50)
器件的非理想化对光纤陀螺精度的影响 李 冰, 唐尊伟, 娄淑琴, 等(54)

电路与控制

- 单轴太阳能跟踪系统设计 张永兴(58)
基于联合傅里叶变换相关器的光电实验研究 刘秋武(62)

图像与信号处理

- 铸币图像配准算法的设计与实现 马千里, 王 俊(66)
基于图像分析的光学伪装效果评价方法研究 徐 英, 姚树良(69)
基于动态图像处理技术的动目标检测与跟踪 高 波, 包国彬(73)
地球观测卫星遥感图像处理技术研究 杨 凯, 胡 波(77)
一种基于图像处理的背景分类方法 蔡云骧, 薛士强, 周志勇, 等(81)

《光电技术应用》征稿简则(封二) 北京欧普特科技有限公司(封三)

ELECTRO-OPTIC TECHNOLOGY APPLICATION

Vol. 25 No. 4(Series No. 113)

Bimonthly ,August 2010

CONTENTS

System and Design

Research on Sky Background Spectrum in Desert Region	TAN Bi-tao, LI Yan-na, Liu Wei-feng, et al(1)
Study of Projectile Photograph Tracked by Mirror in Trajectory	SONG Yu-gui, SUN Shuai(5)
Separation of Variables Method in Application of Transient High-temperature Measurement	JIA Xiao-wen,JIANG San-Ping,HAO Xiao-jian, et al(9)
Development of American Space – based Electro – optic Reconnaissance System	ZHU Xiu-li, CUI Fu-hong(12)
Foreign Anti-sniper Detection Technology and Equipment	SHI Lan,WANG Hong(16)
Analysis of Infrared Detection and Early Warning for Hypersonic Vehicle	WANG Yi-feng CHEN Shu-qin(21)
Research on the Varying Rule of Laser Atmosphere Attenuation on the Sea	GAO Wen-jing,LUO Zhen-ying,WANG Lei(23)
A Method of Measuring Illumination Distribution of Laser Spot Based on LabVIEW	LIU Jiang-wei, JIAO Yang, SHI Jia-ming,et al(27)
Automatic Recognition Technology of Infrared Ship under Island of Sea Background	HE You-jin, MAO Jian-ying , TAN Wei(31)
Study of Bubble Characteristic in Water by Use of High Speed Photography Based Line Lighting Lamp-House	ZHANG Jian-wei , YANG Kun-tao, WANG Jiang-an, et al (35)

Device and Material

Analysis of High Q Microwave Optic Filter	AN Li-jing, PEI Li, QI Chun-hui, et al (42)
Whole Solid State Tm: YAP Laser Operating in Room-Temperature	ZHANG Xiao-juan, WANG Li-Xin, CAI Jun, et al(46)
Research on Reducing Hysteresis Error of New FBG Sensors	WANG Hong-liang, SONG Juan, LI Ming, et al(50)
Effect of Nonideal Optical Component on Measurement Accuracy of Open-loop Fiber Gyroscope	LI Bing, TANG Zun-wei, LOU Shu-qin, et al(54)

Circuit and Control

Design of One Axle Tracking Solar Photovoltaic System	ZHANG Yong-xing(58)
Electro-optical Experimental Study Based on Joint-Fourier Transform Correlator	LIU Qiu-wu(62)

Image and Signal Processing

Design and Implementation of Mint Image Registration Algorithm	MA Qian-li, WANG Jun(66)
Optic Camouflage Effect Evaluation Method Based on Image Analyses	XU Ying,YAO Shu-liang(69)
Moving Target Detection and Tracking Based on Dynamic Image Processing Technique	GAO Bo,BAO Guo-bin(73)
Study of Remote Sensing Image Processing Technology of Earth Observation Satellites	YANG Kai, HU Bo(77)
A Method Based on Image Processing for Background Classifying	CAI Yun-xiang,XUE Shi-qiangular ,ZHOU Zhi-yong ,et al(81)