

《光电技术应用》第27卷(2012年)总目次

总第122~127期

·综述·

期 (页)

- 光电对抗技术及其发展 刘松涛,高东华 3 (1)
光电对抗效果评估方法研究 刘松涛,王赫男 6 (1)

·光电系统·

- AFVISAR系统的优化设计及其分析 吴家祺,何禹铭,黄智君,等 1 (1)
光电混合安全点火系统设计分析 张明,谌国森 1 (5)
主动雷达/红外成像复合制导关键技术 王学伟,徐庆九 1 (9)
末敏弹干扰诱饵效能评估 薛建国,巨秉锋 1 (12)
基于DSP的光电测试设备自动调平研究 李成,宁琦 1 (16)
电子系统故障预测与健康管理技术研究 张秋菊,张冬梅 1 (19)
AOTF近红外光谱技术及在食安领域的应用 刘子毓,侯玉文,许强,等 1 (25)
车灯自由曲面的配光设计 孙天锡,王亚军,罗秉东,等 2 (1)
脉冲激光探测电路设计 徐焱,杨甲胜 2 (5)
电阻触摸式LCD三基色电光特性研究 黄翀,邹敏,郭阳明,等 2 (9)
基于边缘滤波的FBG解调系统 张纪花,王砚波,王喜昌 2 (14)
利用系统级ASIC技术构建高可靠机载控制设备 刘强,银志军 2 (17)
基于MSP430F449的半导体激光器温控系统设计 张悦玲,杨绍岩,张晓娟 3 (10)
基于实时网络的半实物仿真系统控制方法 马胜贤,孔晓玲,王立新,等 3 (14)
基于ARM的紫外辐射计测量控制系统设计 孙健 3 (18)
柔性轴承有轴系快速反射镜结构设计 印铁 3 (22)
高精度陀螺稳定平台稳定回路设计 王巾,王凯 3 (26)
近地层紫外自由空间通信微弱信号放大器设计 成中涛,吴晗平,吴晶,等 4 (1)
基于DSP、FPGA与CAN总线的跟踪控制器设计 刘永民,高磊 4 (7)
基于改进的PID稳定平台伺服控制系统 尚举邦,陈永刚 4 (12)
牛顿环条纹宽度与可见度的研究 黄振永 4 (16)
实验室用便携式考勤系统设计 张准,林绵发,方少寅,等 4 (21)
高温环境下高功率半导体激光器驱动电源设计 周冠军,张雪松,蔡军,等 5 (1)
基于CPLD的C8051F单片机高速数据采集系统设计 陈宇,张跃飞,陈保立 5 (5)
基于HLA和Vega的目标跟踪算法测试系统 陈大建,张紫浩 5 (10)
光电桅杆的应用现状与发展趋势 陈兆兵,郭劲,王恒坤 5 (13)
对毫米波制导武器的烟幕干扰技术 闫俊宏,闵江,苏世明 5 (17)
人工紫外辐射源发展现状及研究进展 孙旭,王昌龙 6 (8)
基于MC9S12XS128的光电无线传感网络构建及其控制器技术设计 王华泽,吴晗平,吴晶,等 6 (16)

·光学设计·

- 激光测距仪用非球面准直透镜优化设计 樊玉赢,孙杰,安亮,等 6 (22)
用于短弧氙灯的光学调焦机构 孙利军 6 (26)

·红外技术·

- 红外系统NETD测试对比与分析 魏东,徐世伟,王大鹏 6 (38)

红外光源辐射效率分析及其改进	张建民,袁忠才,周 瑞	6 (42)
----------------------	-------------	--------

·激光技术·

紫外激光与半导体相互作用研究进展综述	刘晨星,张大勇	2 (21)
激光相干合成效率的影响因子模拟探究	胡奇琪,李剑峰,张大勇,等	2 (27)
TEA CO ₂ 激光器光栅调谐选支技术研究	毕祥丽,宋毅恒,高文清,等	2 (31)
1.06 μm激光等离子体散射特性研究	王鹏冲,张瑞亮,赵万利,等	4 (26)
窄脉冲激光探测电路分析与设计	苗秀梅,张正茂	4 (30)
JW20120826 光纤光栅激光器的优化设计	邴 亮,宁提纲,张 帆	5 (22)
基于夫琅禾费衍射的激光束散角外场检测	李志国,窦茂森,高文静	5 (27)
激光诱导等离子体光谱法在土壤检测中的应用	田 丰,刘俊杰	5 (32)
弱本振激光外差探测信噪比分析	曹松棣,张合勇	6 (29)
掺铽双包层调Q脉冲光纤激光器研究	樊秋林,李飞翔,王立新	6 (35)

·光电探测·

近距离脉冲激光探测接收和处理	周 强,凡小杰,胡 心	1 (29)
条纹管激光成像雷达在近程海面监测应用分析	盛元平,孙剑峰,徐大伟	1 (34)
基于SPM的光子探测技术	胡 涛,刘严严	3 (30)
基于视觉显著图的目标探测	何 鹄,刘 伟,张 健	3 (33)
光电探测放大器的噪声分析	张正茂,陈 峰	3 (37)

·光电器件与材料·

光纤传感技术在物联网中的应用	闫俊芳,裴 丽,陈志伟,等	1 (37)
太阳电池栅线优化设计	杨 乐,高 华	1 (41)
多抽头宽带光纤延迟线的设计与分析	李希明,黄鹏飞	1 (45)
光纤传感技术的研究进展及应用	侯俊芳,裴 丽,李卓轩,等	1 (49)
金属狭缝填充非线性材料光分束特性的FDTD模拟	罗 虎,王新林,朱卫华,等	1 (54)
基于双光纤光栅的光学电流互感器设计	张 准,熊建文,洪应侨,等	2 (34)
电化学腐蚀MCP中载流子传输特性作用与影响分析	任天宇,薛 阳,端木庆铎,等	2 (38)
以CuPc为空穴传输层的染料敏化异质结电池的特性研究	梁 嘉,滕 枫	2 (43)
双光栅干涉位移传感器原理及其误差分析	张金华,陈良洲,刘晓军	3 (41)
缓冲气体压力对铷原子吸收特性的影响	于祥升,王卫民,陈兴无	3 (46)
硅太阳能电池扩散方阻均匀性研究	谢 卿,高 华,杨 乐	3 (50)
LED阵列模式的优化研究	宋宁亮,王亚军,罗秉东,等	3 (54)
TiO ₂ /SiO ₂ 多层膜系一维光子晶体缺陷态特性研究	承 军,王玮钰,熊耀兵,等	4 (34)
用双氧水方法提高单晶硅片制绒效果的研究	韩 丽,高 华,张闻斌,等	4 (39)
双芯光纤的制作及应用研究	杨利敏,裴 丽	4 (42)
低弯曲损耗大模场面积多芯光纤的研究	巩玲仙,王春灿,陈 雪,等	5 (36)
晶体硅太阳能电池烧结工艺优化	高 华,杨 乐,张闻斌,等	5 (40)
一维光子晶体慢光波导的FDTD研究	刘良科	5 (43)
光纤光栅金属化工艺及特性研究	姚文历,管从胜,王 静,等	6 (46)
光纤MEMS低频声传感特性研究	周达华,宗思光,蒋冰莉	6 (51)

·信号与信息处理·

基于PCA的代谢组学数据滤噪方法	丁 俊,邓伶俐,许晶晶,等	1 (60)
基于空间关系的FPA非均匀校正算法	傅景能,李 华	1 (66)
光纤光栅传感系统的信号解调	陈志伟,谭中伟,闫俊芳,等	2 (47)

频率不变波束形成技术的研究进展	刘芳,卢野,王冬霞	2 (53)
基于NSCT的红外偏振与光强图像的融合研究	李伟伟,杨风暴,安富	2 (58)
基于视觉效果的网格简化方法研究与QEM算法实现	吴婧文,全吉成,赵秀影,等	3 (59)
一种改进的直方图均衡化图像增强方法	扈佃海,吕绪良,文刘强	3 (65)
背景典型斑点特征的聚类分析	蔡云骧,田振锡,毕道鹏	3 (69)
浮动阈值算法在小目标图像提取中的应用	胡宏伟,李鸿鹏,李世诚	3 (74)
紫外图像处理方法	张瑞亮,王鹏冲,于瀛,等	4 (47)
基于视频采集卡的图像信息处理	任滢,汪晓洁,刘承禹	4 (51)
基于3D体感技术的动态手势识别	涂创	4 (55)
虚像相位阵列的二维成像原理及其应用	沈笑笑,谭中伟,李睿,等	4 (59)
面向药瓶标签的字符定位方法研究	姜月秋,仇维,高宏伟	5 (47)
基于形态学的白天近红外星目标检测	王铎,韩艳丽,张健,等	5 (52)
一种遥感图像中海岸线的提取方法	邓江生,樊利恒,古立莉	5 (56)
一种改进型图像降噪方法	胡宏伟,赵建,曾明	5 (60)
基于序列图像的复杂背景下字符识别技术研究	姜月秋,于大飞,高宏伟	6 (55)
无人机视觉导航中的图像处理及位姿解算	沈宁,唐大全,李飞	6 (60)

·电路与控制·

电流输出控制设备在ATE上的TPS开发设计	孙健,张建民	1 (71)
基于多DSP与FPGA的实时图像处理系统设计	银志军,刘强	1 (76)
光电伺服系统的多串口通讯软件设计	夏妍,牛啸	6 (65)
一种雪崩光电二极管自耦型偏压电源升压电路	卢野,汪高勇	6 (70)

·测试、试验与仿真·

消光棱镜气室气体检测特性分析	姚伟超,魏明生,张超金,等	2 (62)
面源红外诱饵仿真建模方法研究	赵非玉,卢山,蒋冲,等	2 (66)
烟幕消光效能试验测量方法研究	陆斌,吕俊伟,孙晓颖	2 (70)
光学芯片商业仿真软件的开发与应用	陈林芳,卢山鹰,孙玲玲,等	2 (74)
烟幕红外消光系数的热像仪测试	阎俊宏,高磊,闵江	2 (79)
基于FPGA的线阵探测器非均匀校正的实现	高文清,徐世伟,刘严严,等	3 (77)
自然地物激光散射特性的测量方法设计	张雷,邵铭,张雷雷	3 (82)
红外热像仪测温精度分析	官上洪,王毕艺,赵万利,等	3 (85)
经两种涂料处理的绿色植被的光谱保持比较	胥春雨,许卫东,周国强,等	4 (64)
光电设备机箱模块锁体的优化仿真	李玲娜	4 (67)
数字剪切散斑干涉技术的应用	景敏	4 (71)
经纬仪布站位置对交会测量结果影响的分析	刘鑫伟,王铎,杨健强	5 (64)
基于Pspice的光电探测电路仿真分析	张正茂,胡心	5 (69)
硝化纤维紫外激发荧光光谱分析研究	陈明华,孙翠乐,阎建平	5 (73)
烟幕干扰性能测试技术分析	杨甲胜,王喆,刘承禹	5 (77)
基于ANSYS Icepak的密闭机箱散热仿真分析	李玲娜,蔺佳	6 (75)
磁旋光晶体特性及其在全自动偏振检测中的应用	杨宇光	6 (80)
基于Zernike多项式大气湍流条件下光纤耦合效率的数值分析	王钊,付跃刚	6 (84)

·结构与工艺·

气体放电灯封接技术研究	梁凯斌,胡心	4 (75)
车载小功率双机组电站风道设计	杨荣波,李壮	4 (79)

Annual Culmulative Contents of ELECTRO-OPTIC TECHNOLOGY APPLICATION 2012

Summary

- Opto-electronic Countermeasure Technologies and Their Development LIU Song-Tao, GAO Dong-Hua 3 (1)
 Research on Evaluation Methods for Electro-optic Countermeasure Effectiveness LIU Song-tao, WANG He-nan 6 (1)

Opto-electronic System

- Optimizational Design and Analysis of AFVISAR System WU Jia-qi, HE Yu-ming, HUANG Zhi-jun, et al 1 (1)
 Analysis and Design of Electro-optical Hybrid Ignition System ZHANG Ming, CHEN Guo-sen 1 (5)
 Key Technology of Active Radar/Infrared Imaging Compound Guidance WANG Xue-wei, XU Qing-jiu 1 (9)
 Effectiveness Evaluation on Decoy for Jamming Terminal-sensitive Projectile XUE Jian-guo, JU Yang-feng 1 (2)
 Research on Automatic-leveling for Photoelectric Test Equipments Based on DSP LI Cheng, NING Qi 1 (16)
 Study on Prognostic and Health Management of Electronic System ZHANG Qiu-ju, ZHANG Dong-mei 1 (19)
 Application of AOTF-NIRS Technology in Food Safety Field LIU Zi-yu, HOU Yu-wen, XU Qiang, et al 1 (25)
 Light Distribution Design of Automobile Freeform Headlamp Reflector
 SUN Tian-xi, WANG Ya-jun, LUO Bing-dong, et al 2 (1)
 Design of Pulse Laser Detection Circuit XU Tao, YANG Jia-sheng 2 (5)
 Research on Tricolor Photoelectric Performance of Resistive Touch LCD
 HUANG Chong, ZHOU Min, GUO Yang-ming, et al 2 (9)
 FBG Demodulation System Based on Edge Filter ZHANG Ji-hua, WANG Yan-bo, WANG Xi-chang 2 (14)
 High Reliability Airborne Control System Based on System Level ASIC Technology LIU Qiang, YIN Zhi-jun 2 (17)
 Design of Temperature Control System of Semiconductor Laser Based on MSP430F449
 ZHANG Yue-ling, YANG Shao-yan, ZHANG Xiao-juan 3 (10)
 Control Method of Hardware-in-the-loop Simulation System Based on Real-time Network
 MA Sheng-xian, KONG Xiao-ling, WANG Li-xin, et al 3 (14)
 Design of Measurement and Control System for Ultraviolet Radiometer Based on ARM SUN Jian 3 (18)
 Structure Design of Shafting Fast Steering Mirror with Flexible Bearing YIN Tie 3 (22)
 Design of Stabilized Loop for High Precision Gyro-stabilized Platform WANG Jin, WANG Kai 3 (26)
 Design of Weak Signal Amplifier of UV Free Space Communication near Surface Layer
 CHENG Zhong-tao, WU Han-ping, WU Jing, et al 4 (1)
 Design of Tracking Controller Based on DSP, FPGA and CAN Bus LIU Yong-min, GAO Lei 4 (7)
 Servo Control System Based on Stabilized Platform of Improved PID SHANG Ju-bang, CHEN Yong-gang 4 (12)
 Research on Width and Visibility of Newton's Ringlike Stripes HUANG Zhen-yong 4 (16)
 Design of Portable Attendance System Used in Laboratory ZHANG Zhun, LIN Mian-fa, FANG Shao-yin, et al 4 (21)
 Design of High-power Diode Laser Driver under High-temperature Environment
 ZHOU Guan-jun, ZHANG Xue-song, CAI Jun, et al 5 (1)
 Design of C8051F High-speed Data Acquisition System Based on CPLD CHEN Yu, ZHANG Yue-fei, CHEN Bao-li 5 (5)
 Test System for Target Tracking Algorithm Based on HLA and Vega CHEN Da-jian, ZHANG Zi-hao 5 (10)
 Application Actuality and Development Trend of Electro-optic Mast CHEN Zhao-bing, GUO Jin, WANG Heng-kun 5 (13)
 Research on Smoke Screen Jamming Technology against Millimeter Wave Guided Weapon
 YAN Jun-hong, MIN Jiang, SU Shi-ming 5 (17)

- Status and Research of Manual UV Radiation Source SUN Xu, WANG Chang-Long 6 (8)
- Technique Design of Structure of Electro-optical Wireless Sensor Networks and Controller Based on MC9S12XS128
..... WANG Hua-ze, WU Han-ping, WU Jing, et al 6 (16)

Optical Design

- Optimum Design of Aspheric Collimating Lenses in Laser Range Finders ... FAN Yu-ying, SUN Jie, AN Liang, et al 6 (22)
- Optical Focusing Mechanism for Short-arc Xenon Lamps..... SUN Li-jun 6 (26)

Infrared Technology

- Comparison and Analysis on *NETD* Testing of Infrared System WEI Dong, XU Shi-wei, WANG Da-peng 6 (38)
- Analysis and Improvement on Radiation Efficiency of Infrared Source
..... ZHANG Jian-min, YUAN Zhong-cai, ZHOU Rui 6 (42)

Laser Technology

- Research Progress of Ultraviolet Laser Interaction with Semiconductors LIU Chen-xing, ZHANG Da-yong 2 (21)
- Impact Factor of Laser Coherent Combining Efficiency HU Qi-qi, LI Jian-feng, ZHANG Da-yong, et al 2 (27)
- Research on Grating Tuning Line Selection Technology of TEA CO₂ Laser
..... BI Xiang-li, SONG Yi-heng, GAO Wen-qing, et al 2 (31)
- Research on Scattering Property of 1.06 μm Laser Plasma
..... WANG Peng-chong, ZHANG Rui-liang, ZHAO Wan-li, et al 4 (26)
- Analysis and Design of Detecting Circuit for Narrow Pulse Laser MIAO Xiu-mei, ZHANG Zheng-mao 4 (30)
- Optimization Design of JW20120826 Fiber Grating Laser BING Liang, NING Ti-gang, ZHANG Fan 5 (22)
- Outfield Measuring Method of Laser Beam Divergence Angle Based on Fraunhofer Diffraction
..... LI Zhi-guo, DOU Mao-sen, GAO Wen-jing 5 (27)
- Application of Laser-induced Breakdown Spectroscopy in Soil Detection TIAN Feng, LIU Jun-jie 5 (32)
- Analysis of SNR for Laser Heterodyne Detection with Weak Local Oscillator..... CAO Song-di, ZHANG He-yong 6 (29)
- Research on Double Clad Q-switched Yb Doped Pulsed Fiber Laser FAN Qiu-lin, LI Fei-xiang, WANG Li-xin 6 (35)

Opto-electronic Detection

- Receiving and Processing of Short-range Pulse Laser Detection ZHOU Qiang, FAN Xiao-jie, HU Xin 1 (29)
- Application Analysis of Short-range Ocean Surface Monitoring for Streak Tube Imaging Lidar
..... SHENG Yuan-ping, SUN Jian-feng, XU Da-wei 1 (34)
- Photon Detection Technology Based on SPM HU Tao, LIU Yan-yan (30)
- Target Detection Based on Visual Saliency Image HE Hu, LIU Wei, ZHANG Jian 3 (33)
- Noise Analysis of Opto-electronic Detection Amplifier ZHANG Zheng-mao, CHEN Feng 3 (37)

Opto-electronic Device and Material

- Optical Fiber Sensing Technology Application in Internet of Things
..... YAN Jun-fang, PEI Li, CHEN Zhi-wei, et al 1 (37)
- Optimal Design of Solar Cell Grid Line YANG Le, GAO Hua 1 (41)
- Multi-tapped Wideband Optical Fiber Delay Line LI Xi-ming, HUANG Peng-fei 1 (45)
- Development and Application of Optical Fiber Sensing Technology
..... HOU Jun-fang, PEI Li, LI Zhuo-xuan, et al 1 (49)
- FDTD Simulation on Optical Beam Splitting Properties via Metal Nanoslits Containing Nonlinear Materials
..... LUO Hu, WANG Xin-lin, ZHU Wei-hua, et al 1 (54)
- Design of Optical Current Transformer Based on Dual FBG

..... ZHANG Zhun, XIONG Jian-wen, HONG Ying-qiao, et al	2	(34)
Carrier Transportation Characteristic and Effect in Electrochemical Corrosion of MCP		
..... REN Tian-yu, XUE Yang, DUANMU Qing-duo, et al	2	(38)
Dye-sensitized Solar Cell by Using CuPc as Positive Hole Transport Layer	2	(43)
Principle and Error Analysis of Dual-grating Interference Displacement Sensor		
..... ZHANG Jin-hua, CHEN Liang-zhou, LIU Xiao-jun	3	(41)
Influence of Buffer Gas Pressure on Rubidium Atomic Absorption		
..... YU Xiang-sheng, WANG Wei-min, CHEN Xing-wu	3	(46)
Diffusion Uniformity in Sheet Resistance of Silicon Solar Cells	3	(50)
Optimization of LED Array Mode	3	(54)
..... SONG Ning-liang, WANG Ya-jun, LUO Bing-dong, et al		
Defect State Properties of One-dimensional TiO ₂ /SiO ₂ Multilayer Photonic Crystal		
..... CHENG Jun, WANG Wei-yu, XIONG Yao-bing, et al	4	(34)
Research on Improving Monocrystal Silicon Wafer Texture Effect by Hydrogen Peroxide Method		
..... HAN Li, GAO Hua, ZHANG Wen-bin, et al	4	(39)
Production and Application of Twin-core Fiber	4	(42)
..... YANG Li-min, PEI Li		
Research of Large Mode Area Multi-core Fibers with Low Bending Loss		
..... GONG Ling-xian, WANG Chun-can, CHEN Xue, et al	5	(36)
Sintering Processes Optimization of Crystalline Silicon Solar Cell	5	(40)
..... GAO Hua, YANG Le, ZHANG Wen-bin, et al		
Research on FDTD of Slow Light Waveguide of One-dimension Photonic Crystal	5	(43)
..... LIU Liang-ke		
Research on Surface Metallization of Optical Fiber Grating and Characteristic		
..... YAO Wen-li, GUAN Cong-sheng, WANG Jing, et al	6	(46)
Research on Sensing Characteristics of Low-frequency Acoustic Of Optical Fiber MEMS		
..... ZHOU Da-Hua, ZONG Si-Guang, JIANG Bing-Li	6	(51)

Signal and Information Processing

Metabolomics Data Filtering Method Based on PCA	1	(60)
..... DING Jun, DENG Ling-li, XU Jing-jing, et al		
Nonuniformity Correction for FPA Using Spatial Relationship	1	(66)
..... FU Jing-neng, LI Hua		
Demodulation Methods of FBG Sensing System	2	(47)
..... CHEN Zhi-wei, TAN Zhong-wei, YAN Jun-fang, et al		
Research Progress of Frequency Invariant Beamforming Technology	2	(53)
..... LIU Fang, LU Ye, WANG Dong-xia		
Fusion of Infrared Polarization and Intensity Images Based on NSCT	2	(58)
..... LI Wei-wei, YANG Feng-bao, AN Fu		
Study on Mesh Simplification Methods Based on Visual Effect and Implement of QEM Method		
..... WU Jing-wen, QUAN Ji-cheng, ZHAO Xiu-ying, et al	3	(59)
Image Enhancement Method Using Improved Histogram Equalization		
..... HU Dian-hai, LV Xu-liang, WEN Liu-qiang	3	(65)
Character of Representative Spots from Background by Using Cluster Analysis		
..... CAI Yun-xiang, TIAN Zhen-xi, BI Dao-kun	3	(69)
Application of Floating Threshold Algorithm in Small Target Image Extraction Process		
..... HU Hong-wei, LI Hong-peng, LI Shi-cheng	3	(74)
Research on Ultraviolet Image Processing Method	4	(47)
..... ZHANG Rui-liang, WANG Peng-chong, YU Ying, et al		
Processing of Image Information Based on Video Grabbing Card	4	(51)
..... REN Ying, WANG Xiao-jie, LIU Cheng-shu		
Dynamic Gesture Recognition Based on 3D Kinect	4	(55)
..... GAN Chuang		
Principles and Applications of 2D Imaging Based on Virtually-imaged Phased Array		
..... SHEN Xiao-xiao, TAN Zhong-wei, LI Rui, et al	4	(59)
Character Positioning Methods of Medicine Bottle Label	5	(47)
..... JIANG Yue-qiu, QIU Wei, GAO Hong-wei		
Near-infrared Star Target Detection Based on Morphology during Daytime		
..... WANG Duo, HAN Yan-li, ZHANG Jian, et al	5	(52)
Method of Extraction of Coastline in Remote Sensing Images	5	(56)
..... DENG Jiang-sheng, FAN Li-heng, GU Li-li		

Improved Method of Image Noise Reduction	HU Hong-Wei, ZHAO Jian, ZENG Ming	5 (60)
Research on Character Recognition Technology Based on Sequence Images in Complex Environment	JIANG Yue-qiu, YU Da-fei, GAO Hong-wei	6 (55)
Image Processing, Position and Attitude Estimating of Visual Navigation on UAV	SHEN Ning, TANG Da-quan, LI Fei	6 (60)

Circuit and Control

TPS Development and Design of Current Output Control Equipment on ATE	SUN Jian, ZHANG Jian-min	1 (71)
Design of Real-time Image Processing System Based on FPGA and Multi-DSP	YIN Zhi-jun, LIU Qiang	1 (76)
Design of Multi-serial Communication Software for Servo Control System	XIA Yan, NIU Xiao	6 (65)
Bias Power Boost Circuit of Self Coupling Type for Avalanche Photodiode	LU Ye, WANG Gao-yong	6 (70)

Tests, Experiments and Simulation

Analysis of Gas Measurement Characteristics of Prism Gas Cell by Light Extinction Method	YAO Wei-chao, WEI Ming-sheng, ZHANG Chao-jin, et al	2 (62)
Research on the Modeling Method of Surface-type Infrared Decoy	ZHAO Fei-yu, LU Shan, JIANG Chong, et al	2 (66)
Research on Measuring Method of Smoke Extinction Efficiency Test	LU Bin, LV Jun-wei, SUN Xiao-ying	2 (70)
Development and Application for Business Simulation Software of Optical Chips	CHEN Lin-fang, LU Shan-ying, SUN Ling-ling, et al	2 (74)
Testing Method of Infrared Extinction Coefficient of Smoke Screen by Thermal Imager	YAN Jun-hong, GAO Lei, MIN Jiang	2 (79)
Non-uniformity Correction of Linear Array Detector Based on FPGA	GAO Wen-qing, XU Shi-wei, LIU Yan-yan, et al	3 (77)
Measurement Design of Laser Scattering Characteristic for Nature Ground Objects	ZHANG Lei, SHAO Ming, ZHANG Lei-lei	3 (82)
Study of Temperature Measurement Precision Base on Infrared Thermal Imager	GUAN Shang-hong, WANG Bi-yi, ZHAO Wan-li, YAN Xiu-sheng	3 (85)
Comparative Study of Spectrum Maintain of Green Vegetation with Two Kinds of Coatin	XU Chun-yu, XU Wei-dong, ZHOU Guo-qiang, et al	4 (64)
Optimization Simulation of Photoelectric Equipment Chassis Module Lock Body	LI Ling-na	4 (67)
Application on Digital Shearing Speckle Pattern Interference Technology	JING Min	4 (71)
Analysis of Theodolites Distribution Influenced on Intersection Measurement Results	LIU Xin-wei, WANG Duo, YANG Jian-qiang	5 (64)
Simulation and Analysis of Electro-optical Detection Circuit Based on PSpice	ZHANG Zheng-mao, HU-xin	5 (69)
Research on Fluorescence Spectrum of Nitrocellulose Excited by Ultraviolet	CHEN Ming-hua, SUN Cui-le, YAN Jian-ping	5 (73)
Analysis on Capability Testing Technology of Smoke Screen Jamming	YANG Jia-sheng, WANG Zhe, LIU Cheng-yu	5 (77)
Simulation Analysis of Thermal Runaway of Sealed Chassis Based on ANSYS Icepak	LI Ling-na, LIN Jia	6 (75)
Characteristics of Magneto-optic Rotation Crystal and Application in Full-automatic Polarization Detection	YANG Yu-guang	6 (80)
Analysis on Values of Optical Fiber Coupling Efficiency Based on Zernike Polynomial in Atmospheric Turbulence	WANG Zhao, FU Yue-gang	6 (84)

Structure and Technology

Research on Sealing-in Technology of Gas Discharge Lamp	LIANG Kai-bin, HU xin	4 (75)
Duct Design of Vehicle Dual-unit Low-power Power Station	YANG Rong-bo, LI Zhuang	4 (79)