

目 次

光电工程系统技术

- 双光楔可控扫描一维轨迹分析 韦中超, 莫 瑋, 熊言威等(1)
汽车电站排放烟度与温升的控制技术 龚为佳, 沈卫东, 刘和军等(4)
分形在红外伪装效果评价中的应用 杨 辉, 徐 鑫, 谢 卫等(7)
气溶胶粒径数密度谱的激光大气传输工程应用 陈玉茹, 冯富强, 李 晴(10)
红外双色复合制导对抗技术 康大勇, 高俊光, 胡琥香等(14)

光电器件与材料

- 第三代碲镉汞器件的研发进展 王忆锋, 唐利斌(17)
基于长周期光纤光栅的液位传感研究 欧启标, 曾庆科, 秦子雄等(23)
纳米材料的几种扫描探针显微表征方法 祖宏祥(27)

测试与试验

- FBG 传感技术在智能车流量检测系统中的应用 杨 龙, 马 岚, 黄笑宇等(30)
基于异构传感器的飞行目标测量数据融合 潘丽娜(34)
电阻应变式传感器的稳定性 张 琦, 李新娥, 祖 静(37)

电路与控制

- 实用小功率半导体激光器驱动电路的设计 刘宝元, 郭小云(40)
热释电探测器外电路的抗干扰设计 张海庄, 胡维星, 王海涛等(44)
可编程光纤传输实验系统的设计 周 鑫, 赵同刚, 王 力(47)

信号与信息处理

- 光纤光栅分布式传感器信号解调技术 李卓轩, 裴 丽, 祁春慧等(50)
一种亚像素级图像超分辨恢复算法 赵秀影, 胡玉臣, 翟林培等(54)
基于 FPGA+ 双 DSP 实现的红外图像处理系统与图像显示 徐世伟, 刘严严, 魏 东等(57)
一种改进的虚拟相关信道参数估计方法 代明鑫, 宋兴华(62)

仿真与评估

- 机动目标跟踪算法仿真 刘顺成, 吴晓露, 韩奎侠等(67)
对红外成像设备扫描周期测算方法的仿真分析 王守辉, 王 东, 魏蓝蓝等(70)
空中目标红外辐射特性建模与测量误差分析 雷 萍, 马 娜, 曲卫东等(73)
随机振动仿真分析 王 强, 陈 明(77)

简 讯

- 法国 DPSS 激光器 (49)
《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. 24 No. 5 (Series No. 108)

Bimonthly, October 2009

CONTENTS

Engineering System Technology

- Analysis for One-dimensional Trace by A Controllable Scan of Dual-wedge Prism System WEI Zhong-chao, MO Wei, XIONG Yan-wei, et al(1)
Control Technology of Smoke and Temperature in Automobile Power Unit GONG Wei-jia, SHEN Wei-dong, LIU He-jun, et al(4)
Application of Fractal Theory in Evaluation of Infrared Camouflage Effectiveness YANG Hui, XU Xin, XIE Wei, et al(7)
Project Application of Size and Number Density Distribution of Aerosol Particle in Laser Atmosphere Transmission CHEN Yu-ru, FENG Fu-qiang, LI Qing(10)
Countermeasures Technology for IR Dual-Color Combined Guidance KANG Da-yong, GAO Jun-guang, HU Hu-xiang, et al(14)

Devices and Materials

- Advances in Third-Generation HgCdTe Devices WANG Yi-feng, TANG Li-bin(17)
Liquid Sensor of Long Period Fiber Grating OU Qi-biao, ZENG Qing-ke, QIN Zi-xiong, et al(23)
Several Scanning Probe Microscopy Characterization Techniques on nanomaterials CHU Hong-xiang(27)

Tests and Experiments

- Application of Fiber Bragg Grating Sensing Technology in Intelligent Traffic Detection System YANG Long, MA Lan, HUANG Xiao-yu, et al(30)
Data Fusion for Flight Target Measurement Based on Dissimilar Sensors PAN Li-na(34)
Stability of Resistance Strain-gage Transducer ZHANG Qi, LI Xin'e, ZU Jing(37)

Electrical Circuit and Control

- Design of Practical Driven Circuit for Small Power Semiconductor Lasers LIU Bao-yuan, GUO Xiao-yun(40)
Anti-jamming Design for External Circuit of Pyroelectric Detector ZHANG Hai-zhuang, HU Wei-xing, WANG Hai-tao, et al(44)
Design of Programmable Optical Fiber Transmission Experiment System ZHOU Xin, ZHAO Tong-gang, WANG Li(47)

Signal and Information Processing

- Signal Demodulation Techniques for Distributed Fiber Bragg Grating Sensors LI Zhuo-xuan, PEI Li, QI Chun-hui, et al(50)
A Kind of Image Super-Resolution Restoration Algorithm Based on Sub-Pixel ZHAO Xiu-ying, HU Yu-chen, ZHAI Lin-pei, et al(54)
Infrared Image Processing System and Display Technology Based on FPGA + Two DSPs XU Shi-wei, LIU Yan-yan, WEI Dong, et al(57)
An Improved Parameters Estimated Method for Virtual Correlative Channel DAI Ming-xin, SONG Xing-hua(62)

Simulation and Evaluation

- Tracking Algorithms Simulation for Maneuvering Target LIU Shun-cheng, WU Xiao-lu, HAN Kui-xia, et al(67)
Emulating Analysis of Calculating Methodology for Scanning Period of Infrared Imaging Instrument WANG Shou-hui, WANG Dong, WEI Lan-lan, et al(70)
Modeling and Measure Error Analysis for IR Radiation Peculiarity of Aerial Target LEI Ping, MA Na, QU Wei-dong, et al(73)
Emulation and Analysis of Random Vibration WANG Qiang, CHEN Ming(77)