

目次

红外技术

- 红外目标模拟技术 周炳玉,任滢,汪晓洁(1)
高速公路红外引导系统透雾特性的试验研究 丁利伟,王宗俐,程明阳(4)
红外小目标检测中的 Bayes 估计器背景抑制方法 陈峰,邓剑,毛剑英(10)

激光技术

- 激光熔覆同轴送粉喷嘴研究 薛菲,王耀民,刘双宇(13)
激光探测水下声信号的实验研究 曹增辉,郑田甜,孙腾飞,等(17)
低能量密度下飞秒激光烧蚀镍钛形状记忆合金靶材的微观相变行为 唐一波,陈冰,陈志勇,等(22)

光电器件与材料

- 用于高功率放大的光子晶体光纤特性研究 崔苏,魏淮(27)
衍射光学元件的加工工艺及其在各种光谱镜头中的应用 程习敏,白瑜,谢伟民,等(31)

信号与信息处理

- 窄脉冲峰值保持电路分析与设计 宋毅恒,孟凡斌(39)
基于时序逻辑的测试系统的设计与实现 王华乔,王明忠,王会鹏(43)
全光纤串联双环谐振器的滤波特性研究 陈飞,裴丽,刘超(46)
FBG 应变传感器温度交叉敏感补偿技术研究 王雯珍,刘月明(51)

电路与控制

- 滞后补偿调节器参数设计 刘超,金艳(57)
机载设备的安全防护模块设计 刘蒙,侯宇(62)
一种高速光栅图像采集系统的设计 杨亭,粘伟(66)
大功率光纤激光器泵浦 LD 驱动电源设计 张悦玲,周冠军(70)
大功率 LED 照明的驱动和散热设计 范永金,王东明,吴刚(75)
基于改进型重复控制的三轴转台解耦与控制 林存海,曹广峰(79)

测试、试验与仿真

- 训练模拟器的评分功能设计 赵菲菲(83)
烟幕投放控制分析与设计 顾文慧,高红杰(87)
导弹紫外辐射特性模拟方法研究 张建新,张宝军(90)
基于热电偶动态校准系统的半导体激光器上升时间测试分析 杨宇(95)

企业介绍: 征稿简则(封二) 北京康特曼电子系统有限责任公司(封三)

ELECTRO-OPTIC TECHNOLOGY APPLICATION

Vol.29 No.2(Series No.135)

Bimonthly, April 2014

CONTENTS

Infrared Technology

- Infrared Target Simulation Technology ZHOU Bing-yu, REN Ying, WANG Xiao-jie(1)
Test Research on Detection Ability of Infrared Guidance System for Freeway Traffic in Fog
..... DING Li-wei, WANG Zong-li, CHENG Ming-yang(4)
Bayes Estimator Background Suppression Method for Infrared Small Target Detection
..... CHEN Feng, DENG Jian, MAO Jian-ying(10)

Laser Technology

- Research on Coaxial Powder Feeding Nozzle for Laser Cladding XUE Fei, WANG Yao-min, LIU Shuang-yu(13)
Experiment Research on Underwater Acoustic Signal for Laser Detection
..... CAO Zeng-hui, ZHENG Tian-tian, SUN Teng-fei, et al(17)
Microscopic Phase Change of Ni-Ti Shape Memory Alloy Target under Femto-second Laser Ablating
..... TANG Yi-bo, CHEN Bing, CHEN Zhi-yong, et al(22)

Opto-electronic Device and Material

- Research on Photonic Crystal Fiber Characteristics for High Power Amplifier CUI Su, WEI Huai(27)
Fabrication Technology and Application in Spectral Lens of Diffractive Optical Elements
..... CHENG Xi-min, BAI Yu, XIE Wei-min, et al(31)

Signal and Information Processing

- Analysis and Design of Peak Holding Circuit for Narrow Pulse SONG Yi-heng, MENG Fan-bin(39)
Design and Implementation of Testing System Based on Logic Time Sequence
..... WANG Hua-qiao, WANG Ming-zhong, WANG Hui-peng(43)
Research on Filtering Characteristics of All-fiber Series Coupled Dual Micro-ring Resonator CHEN Fei, PEI Li, LIU Chao(46)
Research on Temperature Cross Sensitivity Compensation Technology of FBG Strain Sensor
..... WANG Wen-zhen, LIU Yue-ming(51)

Circuit and Control

- Parameter Design of Lag Compensation Regulator LIU Chao, JIN Yan(57)
Security Module Design of Airborne Equipment LIU Meng, HOU Yu(62)
Design of High Speed Grating Image Acquisition System YANG Ting, NIAN Wei(66)
Design of Laser Diode Driving Power Supply for High Power Fiber Laser Pumping Source
..... ZHANG Yue-ling, ZHOU Guan-jun(70)
Driving Circuit and Thermal Radiation Design for High Power LED FAN Yong-jin, WANG Dong-ming, WU Gang(75)
Decoupling and Control of Three-axis Turret Based on Modified Repetitive Control System LIN Cun-hai, CAO Guang-feng(79)

Tests, Experiments and Simulation

- Design of Grading Function for Training Simulator ZHAO Fei-fei(83)
Analysis and Design of Smoke Screen Deployment GU Wen-hui, GAO Hong-jie(87)
Research on Simulation Method of Ultraviolet Radiation Characteristic for Missile ZHANG Jian-xin, ZHANG Bao-jun(90)
Test Analysis of Rise Time of Semiconductor Laser Based on Thermocouple Dynamic Calibration System YANG Yu(95)