

目 次

光电系统

- 光电隐身效果的评估方法 杜翠兰,周建忠(1)
基于坐标变换的视轴稳瞄算法 李大成,赵宏斌(5)
太赫兹波对抗等离子体隐身技术的探讨 李 茜,徐 晟,刘少聪,等(9)
基于立体视觉的三维模型重建系统设计 赵 娟,曾 强,魏林媛,等(12)

激光技术

- Tm脉冲激光器泵浦的中红外固体激光器 张晓娟,蔡 军,许 宏,等(15)
激光在复杂大气环境下传输特性的仿真 赵安新,赵同刚(18)

光学设计

- 空间相机共轴三反红外光学系统设计 袁 涛,熊衍建,吴晗平(21)
大功率光纤激光器相干组束的研究 彭 辉(27)
Zernike多项式波面拟合精度研究 冯 婕,白 瑞,邢廷文(31)

光电探测

- 色差对猫眼系统回波影响的理论与实验 豆贤安,孙晓泉,张创新(35)
红外搜索跟踪系统作用距离分析与计算 严世华,祝世杰(39)
一种提高脉冲激光测距精度的方法 朱 福,林一楠(42)

光电器件与材料

- II类超晶格甚长波红外探测器的发展 王忆锋,余连杰,钱 明(45)
一维复周期全息光子晶体禁带研究 程 阳,崔丽彬(53)
高温光纤传感器传感头材料 魏 林,王 高,高志强,等(56)

信号与信息处理

- 基于误差阈值和最小二乘图像拼接关系矩阵的实现 赵秀影,王洪玉,杨子龙,等(61)
基于IRFPA改进中值滤波算法的FPGA实现 杨绍岩,刘万成,周长春(64)
电离层回波信号的瞬时频率估计 李 琼,余志惠,冷 穗,等(68)

电路与控制

- TEA CO₂激光器串联谐振式充电电源研究与设计 司汉英,高文清(71)
基于CPLD的多通道数据采集系统 章晓眉,冯彦君(76)
智能单相电机保护器的设计 林玉明(80)

企业介绍:征稿简则(封二) 朝阳电源有限公司(封三) 北京康特曼电子系统有限责任公司(插1)
北京东方锐镭科技有限公司(插2)

[期刊基本参数] CN21-1495/TN * 1982 * b * A4 * 82 * zh * p * ¥20 * 2000 * 21 * 2011-04

ELECTRO-OPTIC TECHNOLOGY APPLICATION

Vol.26 No.2(Series No.117)

Bimonthly, April 2011

CONTENTS

Opto-electronic System

- Method of Electro-optic Stealth Effect Evaluation DU Cui-lan, ZHOU Jian-zhong(1)
Line of Sight Stabilization Algorithms Based on Coordinate Transformation LI Da-cheng, ZHAO Hong-bin(5)
Discussion on Terahertz Against Plasma Stealth Technology LI Qian, XU Sheng, LIU Shao-chong, et al(9)
Design of 3D Model Reconstruction System Based on Stereovision ZHAO Juan, ZENG Qiang, WEI Lin-yuan, et al(12)

Laser Technology

- Tm Pulse Laser Pumped Mid-IR Solid State Laser ZHANG Xiao-juan, CAI Jun, XU Hong, et al(15)
Simulation of Laser Propagation Characteristic in Complex Atmospheric Environment ZHAO An-xin, ZHAO Tong-gang(18)

Optical Design

- Design of Coaxial Three-mirror Infrared Optical System for Space Camera YUAN Tao, XIONG Yan-jian, WU Han-ping(21)
Coherent Beam Combining Technology of High Power Fiber Laser PENG Hui(27)
Fitting Accuracy of Wavefront Using Zernike Polynomials FENG Jie, BAI Yu, XING Ting-wen(31)

Opto-electronic Detection

- Theory and Experiment of Influence of Chromatic Aberration on Cat-eye System Echo DOU Xian-an, SUN Xiao-quan, ZHANG Chuang-xin(35)
Analysis and Calculation for Operating Range of IRST System YAN Shi-hua, ZHU Shi-jie(39)
Method to Improve Accuracy of Pulse Laser Ranging ZHU Fu, LIN Yi-nan(42)

Opto-electronic Device and Material

- Development of Type-II Superlattices for Very Long Wavelength Infrared Detector WANG Yi-feng, YU Lian-jie, QIAN Ming(45)
Research on Band-gap of One-dimensional Complex-periodic Holographic Photonic Crystals CHENG Yang, CUI Li-bin(53)
Sensing Head Materials of High Temperature Optical Fiber Sensor WEI Lin, WANG Gao, GAO Zhi-qiang, et al(56)

Signal and Information Processing

- Realization of Relationship Matrix Based on Error Threshold and Least Squares Method in Image Mosaic ZHAO Xiu-ying, WANG Hong-yu, YANG Zi-long, et al(61)
FPGA Implementation for Improved Median Filtering Algorithm Based on IRFPA YANG Shao-yan, LIU Wan-cheng, ZHOU Chang-chun(64)
Instantaneous Frequency Estimation of Ionospheric Echo Signal LI Qiong, YU Zhi-hui, LENG Yi, et al(68)

Circuit and Control

- Design and Research of TEA CO₂ Laser Charging Power Supply with Series Resonant Mode SI Han-ying, GAO Wen-qing(71)
Multi-channels Data Acquisition System Based on CPLD ZHANG Xiao-mei, FENG Yan-jun(76)
Design of Intelligent Single-phase Motor Protector Based on Single-chip Microcomputer LIN Yu-ming(80)