

目次

光电系统

- 一种新型的全光固体分幅相机分幅方式的研究 袁芬芳,刘希顺,陈绍荣,等(1)
单模激光系统中的时间延迟反馈控制 顾晓辉(5)
多色部分相干光的光谱变化和光谱开关现象研究 李鸿鹏(9)

激光技术

- 激光诱导Cu等离子体发射光谱分析 桑涛,郝晓剑(14)
三种C+L波段掺铒光纤ASE光源的实验对比研究 李丽,贾振安(18)

光电器件与材料

- 空气间隙对多层衍射光学元件衍射效率的影响 龚豪,邸旭,薛常喜(22)
典型工艺缺陷对光波导特性的影响研究 范哲琿,王健(26)
全光纤结构掺镱超荧光光纤光源实验研究 院楚君,娄淑琴(31)
1 064nm/532 nm双波长自由切换输出激光器 延新杰,李磊(37)
LD泵浦Cr:YAG被动调Q内腔式SrWO₄锁模拉曼激光器实验研究 贾海旭(40)

信号与信息处理

- 光纤传感器振动信号特征提取研究 盛媛媛,刘俊承,金佳颖,等(45)
基于投影的图像识别方法研究 马春燕(51)
光场成像数字对焦清晰度评价函数的分析与改进 梁欣(56)
一种基于北斗飞行器在监控显示中的状态动态预测方法 赵秀影,熊壮,肖景新,等(60)
基于小波变换阈值萎缩法的红外图像去噪 邢永祯(64)

电路与控制

- 白光瞄准镜零位走动量测量方法研究 张聪,安志勇,韩迪,等(67)
基于ATMEGA1281的钝感型电点火具触发器电路设计 蔡敬海,杨乾(70)

测试、试验与仿真

- 基于热极化双孔光纤的电调谐光纤光栅 郭燕,任国斌,黄琳(75)
红外图像处理算法的FPGA实现 高学潮(80)

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.30 No.6(Series No.145)

Bimonthly, December 2015

CONTENTS

Opto-electronic System

- Research on a Novel All-optical Solid Framing Camera Framing Mode YUAN Fen-fang, LIU Xi-shun, CHEN Shao-rong, et al(1)
- Time-delayed Feedback Control in Single-mode Laser System GU Xiao-hui(5)
- Research on Spectral Change and Spectral Switch of Multicolor Partial Coherent Light LI Hong-peng(9)

Laser Technology

- Emission Spectrum Analysis of Copper Plasma Induced by Laser SANG Tao, HAO Xiao-jian(14)
- Experiment Contrast Research on Three Kind of C+L Band Erbium-doped Fiber Amplified Spontaneous Emission Light Source LI Li, JIA Zhen-an(18)

Opto-electronic Device and Material

- Air Gap on Diffraction Efficiency for Multilayer Diffractive Optical Element GONG Hao, DI Xu, XUE Chang-xi(22)
- Research on Effect of Typical Process Defect on Optical Waveguide Characteristic FAN Zhe-hui, WANG Jian(26)
- Experimental Research on All-fiber Ytterbium-doped Superfluorescent Fiber Source YUAN Chu-jun, LOU Shu-qin(31)
- 1 064 nm and 532 nm Dual-wavelength Switchable Solid State Laser YAN Xin-jie, LI Lei(37)
- Experiment Research on Laser-diode-pumped Cr:YAG Passively Q-switched Intracavity SrWO₄ Mode-locked Raman Laser JIA Hai-xu(40)

Signal and Information Processing

- Research on Vibration Signal Feature Extraction on Optical Fiber Sensor SHENG Yuan-yuan, LIU Jun-cheng, JIN Jia-ying, et al(45)
- Research on Image Recognition Method Based on Projection MA Chun-yan(51)
- Analysis and Improvement on Digital Refocusing Sharpness Evaluation Function of Light Field Photography LIANG Xin(56)
- State Dynamic Prediction Method Based on Beidou Navigator in Monitoring and Displaying ZHAO Xiu-ying, XIONG Zhuang, XIAO Ying-xin(60)
- Infrared Image Denoising Based on Wavelet Transform Threshold Shrinkage Method XING Yong-zhen(64)

Circuit and Control

- Research on Measurement Method of Variational Momentum of the Zero Position of White Light Sighting Telescope ZHANG Cong, AN Zhi-yong, HAN Di, et al(67)
- Circuit Design of Insensitive Electric Igniter Trigger Based on ATMEGA1281 CAI Jing-hai, YANG Qian(70)

Tests, Experiments and Simulation

- Research on Electrically Tunable Fiber Bragg Grating Based on Thermally Poled Twin-hole Fiber GUO Yan, REN Guo-bin, HUANG Lin(75)
- FPGA Implementation of Infrared Image Processing Algorithm GAO Xue-chao(80)