

目 录

• 光谱 •

- 极性染料溶液的微微秒动态荧光光谱移位 I. M. Gulis et al. (961)
采用光热辐射计量术测量固体材料的光谱吸收系数 崔岩等 (968)
四苯基卟啉-锌化合物的微微秒瞬态吸收和荧光动力学研究 李伟良等 (972)

• 非线性光学 •

- CS₂分子激发态的紫外多光子电离——双色激光单共振离化的功率密度关系 范俊颖等 (978)
BILED/BILD 组合回路的光学逻辑运算 刘树田等 (983)
反馈调谐 CO₂激光器的静态与动态行为 陈历学等 (989)
非线性单模光纤中源啁啾孤子相互作用 杨祥林等 (995)

• 激光 •

- 染料激光瞬态过程中的噪声 朱士群 (1002)
全金属结构铜空心阴极激光器的研究 薛焕然等 (1008)

• 全息术和信息处理 •

- 非相干光实现的二维复数离散傅里叶变换 张莉等 (1013)
利用色散补偿白光相关器及高通滤波技术检测粒子大小 蔡履中 (1020)
漫反射物的实时互相关运算 王天及等 (1028)

• 薄膜光学 •

- 双轴晶衬底上双轴晶单晶薄膜的椭偏测量 施路平等 (1033)

• 简讯 •

- 离子注入 SiO₂玻璃的光吸收研究 冯逸平等 (1037)
非水体系中哌啶在银电极表面的表面增强喇曼散射 顾仁教等 (1041)
正交光栅干涉仪对二维分立点物体成像 吴建宏等 (1047)
沿流动方向折叠腔的优越性 吴中祥 (1053)

A OPTICA SINICA

Vol. 9, No. 11

(Monthly)

November, 1989

CONTENTS

Spectroscopy

- Picosecond study of time-dependent spectral shift in polar dye solutions *I. M. Gulis et al.* (961)
Measurement of absorption coefficient for solid material by photothermal radiometry
..... *Cui Yan et al.* (968)
Picosecond time-resolved transient absorption and fluorescence study of tetraphenylporphyrin
-Zn *Li Weiliang et al.* (972)

Nonlinear Optics

- UV multiphoton ionization of excited state of CS₂ molecule-Intensity dependence of two-color
laser single resonance ionization *Fan Junying et al.* (978)
Optical logic implementation in composite BILED/BILD circuits *Liu Shutian et al.* (983)
Stability and dynamical behavior of a CO₂ laser with feedback control of the detuning
..... *Chen Lixue et al.* (989)
Soliton interaction with chirp from optical source in nonlinear monomode optical fibers
..... *Yang Xianglin et al.* (995)

Laser

- Noise in dye laser transients *Zhu Shiqun* (1002)
A study of the copper hollow cathode laser with all metal construction... *Xue Huairan et al.* (1008)

Information Processing

- Incoherent optical implementation of 2-D complex discrete Fourier transform
..... *Zhang Li et al.* (1013)
Particle sizing using dispersion-compensated white light correlation and high pass filtering ...
..... *Cai Lusheng* (1020)

- Real time cross correlating operation on diffuse object *Wang Tianji et al.* (1028)

Thin Film Optics

- Ellipsometric measurement of biaxial single crystal films on biaxial crystal substrates
..... *Shi Luping et al.* (1033)

Research Notes

- Optical absorption study of Ag⁺ implanted SiO₂ glass *Feng Yiping* (1037)
The surface enhanced Raman scattering of piperidine adsorbed on silver electrode surface in
nonaqueous media *Gu Renao et al.* (1041)
Imaging two-dimensional objects composed of discrete points with a cross-grating
interferometer *Wu Jianhong et al.* (1047)
The superiority of laser cavity folded along flow direction *Wu Zhongxiang* (1053)