

目 录

• 激光等离子体 •

- 强激光场诱导自电离理论.....姚关华等 (673)
 激光产生的铝、硅、氧、铜、硒等离子体 X 光谱.....冯贤平等 (680)

• 非线性光学 •

- 单延迟三阶、四阶相关函数确定超短光脉冲形状.....张包铮等 (685)
 光解产生的铅原子中受激喇曼散射和共振激光辐射.....张 杰等 (693)
 一种猫眼列阵相位共轭镜的研究.....张福振等 (699)

• 光谱 •

- 乙炔($2\nu_5 - \nu_5$)、 $(\nu_4 + \nu_5) - \nu_4$ 和 $(2\nu_4 + \nu_5)_I - 2\nu_4 Q$ 支高分辨二极管激光光谱.....徐文刚等 (706)
 激光诱导 Fe^+ 和 $Fe(CO)_5$ 离子分子反应机制的实验和理论研究.....李书涛等 (714)

• 全息术与信息处理 •

- 计算全息图产生的锥面波在激光准直中的应用.....郑 刚等 (720)

• 干涉和衍射 •

- 用环形横向剪切干涉法精密测定透镜的折射率和色散.....向才新等 (726)
 直角刻槽反射光栅的后向衍射特性.....王效敬 (732)

• 薄膜光学 •

- 光学薄膜吸收损耗的研究.....吴周令等 (741)
 对称膜堆定值监控的反射率圆图技术.....郭 屏等 (746)
 氮化铝薄膜的红外吸收光谱和喇曼光谱的研究.....刘付德等 (752)

• 简讯 •

- 光电探测器相对光谱灵敏度测试方法的研究.....吴继宗等 (758)
 非均匀光纤中梯度项对模式的影响.....苏科峰 (763)
 中国光学学会第三届理事会在沪召开.....乙 民 (705)
 中国光学学会第三届理事会理事名单..... (740)

CONTENTS

Laser-Plasma

- Theory of intense laser-field induced autoionization.....Yao Guanhua *et al.* (673)
 X-ray spectrum of Al, Si, O, Cu, Se from laser plasma.....Feng Xianping *et al.* (680)

Nonlinear Optics

- Determination of ultrashort light pulse shape by single-delay 3rd- and 4th- order intensity correlations.....Zhang Baozheng *et al.* (685)
 Stimulated Raman scattering and resonant laser radiation in photodissociated Pb..... Zhang Jie *et al.* (693)
 Study on a pseudo PPCM of cat's eye arrayZhang Fugen *et al.* (699)

Spectroscopy

- $(2\nu_5 - \nu_5)$, $(\nu_4 + \nu_5) - \nu_4$ and $(2\nu_4 + \nu_5)_T - 2\nu_4$ Q branches of high resolution diode laser spectra of acetylene.....Xu Wengang *et al.* (706)
 Experimental and theoretical studies of laser induced ion-molecule reaction between Fe^+ and $\text{Fe}(\text{CO})_5$ Li Shutao *et al.* (714)

Holography and Information Processing

- Application of cone wave generated by CGH in laser alignmentZheng Gang *et al.* (720)

Interference and Diffraction

- Precise measurement of refraction index and dispersion of lens by encircling lateral shearing interferometer.....Xiang Caixin *et al.* (726)
 Retrodiffraction properties of reflecting grating with right angle groovesWang Xiaojing (732)

Thin Film Optics

- Absorption losses in single layer optical coatings.....Wu Zhouling *et al.* (741)
 Reflectance diagram technique in level monitoring of symmetric stacks.....Guo Ping *et al.* (746)
 The investigation of infrared absorption spectrum and Raman spectrum of AlN thin FilmsLiu Fude *et al.* (752)

Research Note

- A measuring method of relative spectral sensitivity distributions of photoelectric detectorsWu Jizong *et al.* (758)
 The effect of gradient term on the modes of inhomogeneous optical fiberSu Kefeng (763)
 The third Council Meeting of chinese optical Society held in ShanghaiYi Ming (705)