

目 录

• 非线性光学 •

- 高压氢激发态之间的受激喇曼散射 楼祺洪等 (481)
金属表面在反射方向产生光学二次谐波的研究(II) 郑万泉等 (487)
内腔二次谐波过程中光场强度自脉冲振荡的增强 斯少征等 (493)
有横向分布为 TEM_{10} 模的信号注入的环形腔激光器的双稳性 姚锡君等 (501)
窄禁带半导体的非线性极化率和光学双稳性 欧发等 (507)
光学空间相干度双稳态 董孝义等 (513)

• 光谱 •

- 线性三原子分子转动-振动能谱的李群处理方法 易希璋等 (521)

• 全息术和信息处理 •

- 一种新的消色像全息术 范诚等 (527)
全息滤波光学图像相减 许浩瀚等 (533)
光学多通投影相关矩阵-矢量乘法器 黄洪欣等 (537)
复物体的恢复 张月等 (544)

• 光学仪器 •

- 针孔透射式光栅光谱仪衍射效率的理论模拟 李跃林等 (550)
紫外至近红外积分球辐射定标系统 金中海等 (556)

• 薄膜光学 •

- 记录薄膜 Te-In-Sb 光学性质的研究 王豪等 (562)

• 光学元件 •

- 机械转镜隔离器的光束位置复原特性研究 周烽等 (568)

• 简讯 •

- 离散汉克尔变换及其在高效激光整形中的应用 李永平等 (573)

CONTENTS

Nonlinear Optics

- Stimulated Raman scattering between excited states of hydrogen at high gas pressure.....
..... *Lou Qihong et al.* (481)

- The research of reflected second harmonic generation from metal surface (II).....
..... *Zheng Wanquan et al.* (487)

- Enhancement of intensity self pulsing oscillation in intracavity second harmonic generation
process..... *Jin Shaosheng et al.* (493)

- The bistability of the ring cavity laser with a injected signal having a transverse distribution of
the TEM₁₀ mode..... *Fan Xijun et al.* (501)

- The nonlinear susceptibility and optical bistability of narrow gap semiconductors ...*Ou Fa et al.* (507)

- Optical spatial coherence degree bistability..... *Dong Xiaoyi et al.* (513)

Spectroscopy

- Lie Groups approach to the rotation-vibration energy levels for a linear triatomic molecule.....
..... *Yi Xizhang et al.* (521)

Holography & Information Processing

- A new achromatic image holography *Fan Cheng et al.* (527)

- Optical image subtraction with holographic filtering..... *Xu Haohan et al.* (533)

- Optical matrix-vector multiplication using multichannel shadow-casting correlator.....
..... *Huang Hongxin et al.* (537)

- Reconstruction of a complex-valued object function *Zhang Yue et al.* (544)

Optical Instrument

- Theoretical simulations of diffraction efficiencies of a pinhole transmission grating spectrometer
..... *Li Yaolin et al.* (550)

- Integrating sphere radiation calibration system for UV to near IR *Jin Zhonghai et al.* (556)

Thin Film Optics

- The optical properties of Te-In-Sb recording thin film *Wang Hao et al.* (562)

Optical Components

- Investigation of optical restoration characteristics of mechanical rotating mirror isolator.....
..... *Zhou Feng et al.* (568)

Research Notes

- Discrete Hankel transform and its application to laser shaping in high efficiency.....
..... *Li Yongping et al.* (573)