

目 录

电子束激励的三原子准分子动力学

-郭振华 F.K. 梯特尔 W.L. 小威尔逊 R. 沙瓦尔布莱 (685)
- 由光学布洛赫方程讨论连续激光振荡过程.....李长江 (692)
- 一种内反射耦合的单纵模半导体激光器模型.....王仲明 (696)
- LiF:F₂ 晶体调 Q 钽玻璃激光器.....张贵芬 (702)
- 水平无籽晶气相生长的 Pb_{1-x}Sn_xTe 二极管激光器
.....朱筱春 曹根娣 张位在 杨建群 王海龙 (704)
- 内腔 He-Ne 激光的磁致差拍噪声.....吕可诚 巴思旭 张金英 (707)
- 声光偏转器的调制传递特性.....陈代书 (711)
- 磁光隔离器的最佳化研究.....范滇元 杨 义 姜子龙 (714)
- 单模光纤与单模平面波导端面激励耦合的研究
.....徐敬舆 李 劭 吴旭峰 汪 健 (719)
- 激光陀螺中应用的石榴石单晶薄膜磁光材料.....刘湘林 王洪祥 (723)
- 氟磷酸盐激光玻璃光散射和激光破坏原因的研究.....卓敦水 许文娟 蒋亚丝 (726)
- HoP₅O₁₄ 晶体的结构与光谱.....王庆元 刘书珍 白云起 陈明玉 董向明 (730)
- 脉冲激光能量的自动监测.....崔志光 周复正 沈丽青 陆来荣 吴同洋 (735)

科学札记

- 用存储闭路电视系统测试分析超短光脉冲的双光子荧光图象.....水金城 (740)
- X 射线预电离特性的研究.....唐士清 兰 戈 龚光源 江英英 胡百军 (741)
- 横向流动 CO₂ 激光器增益系数的测量.....赵建荣 姜在英 李春金 李旭昌 (743)
- LG-1000 流水补偿式激光大功率计.....王一方 (745)

简讯

- 新型的激光器滤光材料.....查贵根 朱斐章 (739)
- BDN 染料的纯光学型双稳态效应.....周福新 赫光生 程与旦 (747)
- He-Ne 激光临床应用几则.....陈锦河 李瑞霞 何应辉 (747)
- 单模光纤微微秒近红外多级受激喇曼散射.....聂朝江 凌君达等 (748)
- 6328 Å 磁起偏 He-Ne 激光器研制成功.....明万林 (748)

CONTENTS

- Kinetics of electron beam-pumped triatomic excimers
 *Guo Zhenhua, F. K. Tittel, W. L. Wilson, Jr., R. Sauerbrey* (685)
- Discussion on CW laser oscillation process via optical Bloch equations *Li Changjiang* (692)
- A model of single longitudinal mode semiconductor laser by means of internal-reflection optical coupling *Wang Zhongming* (696)
- A LiF:F_2^- crystal Q-switched Nd glass laser *Zhang Guifen* (702)
- Horizontal unseeded vapor growth (HUVG) of a $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$ diode laser
 *Zhu Xiaochun, Cao Gendi, Zhang Weizai, Yang Jianqun, Wang Hailong* (704)
- Magnetic induced beat noise in an intracavity He-Ne laser
 *Lu Kecheng, Ba Enxu, Zhang Jinying* (707)
- Modulation transfer characteristics of an acousto-optic deflector *Chen Daishu* (711)
- Optimization design of Faraday rotators *Fan Dianyuan, Yang Yi, Jiang Zhilong* (714)
- Research on end fire coupling between single-mode optical fiber and single-mode planar waveguide
 *Xu Jingyu, Li Qu, Wu Xufeng, Wang Jian* (719)
- Magneto-optic materials of garnet single crystal films for ring laser gyroscopes
 *Liu Xiangling, Wang Hongxiang* (723)
- Study of the cause for light scattering and laser damage in fluorophosphate laser glasses
 *Zhuo Dunshui, Xu Wenjuan, Jiang Yasi* (726)
- Spectra and structure of $\text{HoP}_5\text{O}_{14}$ crystals
 *Wang Qingyuan, Liu Shuzhen, Bai Yunqi, Chen Mingyu, Dong Xiangming* (730)
- Automatic monitoring of pulsed laser energy
 *Cui Zhiguang, Zhou Fuzheng, Shen Liqing, Lu Lairong, Wu Tongyang* (735)

SCIENCE NOTES

- Measurement and analysis of the TPF patterns of ultrashort pulse using closed circuit TV with memory system *Shui Jincheng* (740)
- Study on x-ray preionization performances
 *Tang Shiqin, Lan Gu, Gong Guanyuan, Jiang Yingying, Hu Baijun* (741)
- Measurement of gain coefficient of a transverse flowing CO_2 laser
 *Zhao Jianrong, Jiang Zaiying, Li Chunjin, Li Xuchang* (743)
- Model LG-1000 high power meter for lasers with flowing water compensation *Wang Yifang* (745)