

目 录

激光器件

- 横流针板放电 CO₂ 激光器的理论计算模型.....夏祖勇 丘军林 (705)
- 以多掺杂 YAG 为调 Q 元件的主被动锁模激光器.....陈有明 唐贵琛 裘佩霞 桂尤喜 姚广涛 (711)
- 内腔式 CO₂ 激光器工作状态的研究.....王波 王瑞峰 裘明信 (714)
- 长寿命封离式溴化亚铜激光器的研究.....赵裕兴 梁宝根 汤星里 (741)
- 紫外 ns 激光脉宽的研究.....张鸣超 (743)

实验技术与元件

- 采用快速压电陶瓷调频元件提高染料激光器的频率稳定度.....汤俊雄 田云鹏 郑乐民 (718)
- 多模光纤对激光的脉冲宽度与方向性的影响.....梁培辉 张伟清 张哨峰 孙晓翔 沃敏政 (722)
- 相交圆聚光腔的聚光效率.....王少川 (745)

激光物理与激光化学

- 测温技术中 CARS 谱的模拟计算.....虞海平 王庆宇 李郁芬 (725)
- XeCl 准分子激光泵浦的 DCM-丙二醇碳酸脂染料激光体系的光谱和激光特性
.....上官诚 林英仪 江锦泉 窦爱荣 王怡曼 刘殿友 郭 础 (731)
- 丝状液晶重取向效应简并四波混频的理论分析.....林则明 周海光 黄远不 (735)
- 蓝-绿新激光染料 J 系列的光谱和激光性能 ..严福君 滕月莉 程铸生 李孝土 黄德昭 朱正华 (748)

全息技术与信息处理

- 不用狭缝的三维漫射体一步彩虹全息术.....国承山 (739)
- 双透镜像散光学系统摄制彩虹和像面全息图的实验研究.....刘淑辉 厉志明 (750)
- 《中国激光》1987 年(第 14 卷,总第 121~132 期)总目录..... (753)
- 作者索引..... (765)

CONTENTS

•LASER DEVICES•

- A theoretical model for transverse flow pin-to-plate discharge CO₂ lasers...*Xia Zuyong, Qiu Junlin* (705)
- Active-passive mode-locked laser using multi-compound doped YAG as Q-switch
.....*Chen Youming, Tang Guishen, Qiu Peixia, Gou Youxi, Yao Guangtao* (711)
- Investigation of working state of intracavity CO₂ lasers
.....*Wang Bo, Wang Ruifeng, Qiu Mingxin* (714)
- Study of longlife-time sealed-off copper-bromide vapor laser
.....*Zhao Yuxing, Liang Baogen, Tang Xinli* (741)
- Investigation on ns pulse width of UV laser.....*Zhang Mingchao* (743)

•EXPERIMENTAL TECHNIQUES AND ELEMENTS•

- Improving frequency stability of dye laser with a fast PZT frequency transducer
.....*Tang Junxiong, Tian Yunpeng, Zheng Lemin* (718)
- Influence of multimode optical fiber on pulse width and divergence of laser beams
.....*Liang Peihui, Zhang Weiqing, Zhang Shaofeng, Sun Xiaoxiang, Wo Minzheng* (722)
- On the collecting efficiency of intersecting cylindrical cavity.....*Wang Shaochuan* (745)

•LASER PHYSICS AND LASER CHEMISTRY•

- Computer simulation of CARS spectrum in thermometry ...*Yu Haiping, Wang Qinyu, Li Yufen* (725)
- Laser and spectral characteristics of DCM-propylene carbonate dye laser system pumped by XeCl
excimer laser.....
.....*Shangguan Cheng, Lin Yinyi, Jiang Jinqian, Dou Airon, Wang Yiman, Liu Dianyan, Guo Chu* (731)
- Theoretical analysis of DFWM using induced reorientation of filamentary nematic liquid crystal
.....*Lin Zhemin, Zhou Haiguang, Huang Yuanbo* (735)
- Spectral and lasing properties of J-series blue-green new laser dye
.....*Yan Fujun, Teng Yueli, Cheng Zhusheng, Li Xiaotu, Huang Dezao, Zhu Zhenghua* (748)

•HOLOGRAPHY AND INFORMATION PROCESSING•

- Rainbow holography without slit of 3-D stationary object*Guo Chengshan* (739)
- Experimental investigation of fabricating rainbow and image-plane holograms with two lens
astigmatic system.....*Liu Shuhui, Li Zhiming* (750)

Annual cumulative contents of volume 14, Chinese Journal of Lasers(1987) (753)

Author index..... (765)