

激光

(月刊)

第八卷 第十二期

(总第 60 期)

一九八一年十二月

目 录

光束通过硬边光阑的内禀能量和衍射发散度.....	邓锡铭等 (1)
输出 0.42 焦耳的紫外光预电离 KrF 准分子激光器	袁才来等 (4)
关于单块双 45° LN 电光 Q 开关消光比的讨论	赵三元 (8)
以脉冲氙离子激光器为泵浦和注入光源的注入锁定 染料激光器.....孙述箇等 (14)	
激光在光纤直径测量与控制中的应用.....杜柏林 (17)	
在检验非球面中计算全息图的误差分析和误差测 量.....陈仲裕 郑 辉 (22)	
一种校正三级球差的二元全息图投影显示屏幕系统	徐昆贤 (26)
横向泵浦染料激光器腔内元件的研究.....王应哲 (31)	

科学札记

混合式 CO ₂ 激光器 (36) CO ₂ 激光器的简单稳频 (37)	
轰击区的非辐射复合对作用区注入载流子空间分布的影响	
(38) 横向激励气压调谐波导 CO ₂ 激光器 (40)	

问题讨论

关于气体激光管着火电压降低机理的几个问题 (44)

简 讯

砷化镓双异质结激光器寿命达万小时 (7) 激光机床 (43)	
He 的 5875.6 Å 激光发射 (45) 九条新紫外脉冲激光谱 线 (46) 基础光学将持续稳定发展 (46) 《激光》杂志 1981 年 (总 49~60 期) 总目录 (47)	

编 辑 《激光》编辑委员会
(上海 8211 邮政信箱)
(邮政编码: 201849)

出 版 上海科学技术出版社
印 刷 上海商务印刷厂
国内发行 上海市报刊发行处
国内订阅 全国各地邮局
国外发行 中国 国际书店
(北京 399 信箱)

代号: 国内 4—201 定价: 0.33 元

国外 M159

沪刊第 080 号

CONTENTS

- The intrinsic energy and diffraction divergence of a light beam after passing through a sharp edge diaphragm Deng Ximing et al. (1)
A UV-preionized KrF excimer laser with an output energy of 0.42 J Yuan Cailai et al. (4)
Discussion on the extinction ratio of double 45° single block LN electro-optic Q-switches Zao Sanyan (8)
Injection-locked dye laser pumped and injected by a pulsed xenon-ion laser Sun Diechi et al. (14)
Application of laser to the measurement and control of optical fiber diameter Du Bolin (17)
Error analysis and error measurement of computer generated holograms in the test of aspheric surfaces Chen Zhongyu, Zheng Hui (22)
A two-element holographic projection display screen for correction of the third-order spherical aberration Xu Kunxian (26)
Researches on intracavity elements of transversely pumped dye lasers Wang Yingzhe (31)

SCIENCE NOTES

A hybrid CO₂ laser (36) Simple stabilization of CO₂ laser frequency (37) Influence of the nonradiative combination velocity in the proton bombarded region on the spatial distribution of the injection carriers in the active layer (38) A new principle for TE waveguide CO₂ laser tuning by pressure(40)

DISCUSSION

On some problems of the mechanism of lowering breakdown voltage in gas laser tubes (44)

LETTERS

Life time of 10,000 hrs for DH GaAs laser(7) Application of lathe in laser tube fabrication (43) 5875.6 Å laser radiation in He (45) 9 new UV pulsed lines (46) Basic optics will experience continued and steady development(46) Annual Cumulative Contents of Volume 8, Laser Journal (1981)(47)

LASER JOURNAL

(Monthly)

Vol. 8 No. 12

December 1981

Edited by: *Editorial Board, Laser Journal* (P. O. Box 8211, Shanghai, China)

Published by: *Shanghai Press of Science and Technology*

Printed by: *Shang Wu Printing House, Shanghai*

Distributed by

Domestic: *Local Post Offices*

Foreign: *GUOJI SHUDIAN* (P. O. Box 399, Beijing, China)
