

目 录

关于用混频法产生相干真空紫外调谐辐射的若干问题	李彬学	黄永楷	(257)	
单模光纤构成时间不变线性系统的理论分析	张 涛	万良风	(263)	
F 原子 $3p^4S^0 \sim 3s^4P$ 跃迁产生的激光	何林生		(266)	
低抖动双通道准分子激光器				
..... 胡雪金 陈永荣 库 耕 曹洪如 车明瑜 赵震声 李昭临 殷宝龙	(270)			
对同步泵浦染料激光系统已有实验结果的解释和讨论	鲍晓毅	关信安	(273)	
CO ₂ 激光器早期过程的直接质谱诊断	王欲知	刘建生	(277)	
多模掩埋式平面玻璃波导的制作及测试	阮丽真 徐敬舆 吴惠珍	陈益新	(281)	
半导体激光器参数综合测量法及其应用	肖宗耀 陈莲勇	忻慧芳	(284)	
制作变间距光栅的新方法	陈建文 傅淑芬 张大可 戚张芬	杨 森 王之江	(291)	
高密度信息三色显示				
..... 郁德明 罗伟民 施亚玲 王唯一 徐剑云 唐春明 龚焕明	(295)			
消色散四棱镜扩束器	汤星里 赵梅村	钱玉兰	于开义	(298)
水面、陆地二路准直激光束漂移	马 建 唐 武 沈珊雄	郭增欣	潘佐棣	(302)
用 Fe:LiNbO ₃ 的实时散斑错位干涉仪				
..... 王天及 范少武 张世超 李耀棠 徐良瑛 束碧云 童乃柱	(306)			
激光干涉视力仪及其应用研究	陈国鉴 石锦辉	许家华	(310)	

科学札记

1.15 μm 区八条可选谱线的 He-Ne 激光器	赵绥堂 陈天杰 舒文华 王静凛	(314)
He-Ne 激光穴位照射治疗婴幼儿腹泻 200 例		潘祥生 (316)
激光穴位照射治疗遗尿症	王书波 朱生全 王桂生	(317)
He-Ne 激光治疗小儿流行性腮腺炎 33 例		田素峙 (319)

简讯

高功率 CO ₂ 激光器窗口用的高纯低吸收 KCl 晶体	瑞 雪	(269)
使激光人卫测距精度达到厘米级的“超短脉冲激光系统”	何慧娟	(290)
中国光学学会举办激光医学学习班	费 文	(290)
上海光机所生长出大尺寸优质 Nd:YAG 晶体	吉 禾	(313)
实用化 AlGaAs/GaAs 双异质结激光器	金 卫	(319)

(Monthly)

May 20, 1986

CONTENTS

Problems on generation of continuously tunable VUV coherent radiation by four wave-mixing	<i>Li Binxue, Huang Yongkai</i>	(257)
Theoretical analysis on time-invariant linear system made by monomode fibers... <i>Zhang Tao et al.</i>		(263)
Laser emission from fluorine atomic transition $3p^4S^0-3s^4P$ <i>He Linsheng</i>		(266)
A low jitter two channel discharge pumped excimer laser..... <i>Hu Xuejin et al.</i>		(270)
Explanation and discussion on the reported experimental results of characteristics of picosecond pulse generated from synchronously pumped dye laser system <i>Bao Xiaoyi, Guan Xinan</i>		(273)
Direct analysis of gas components in CO ₂ lasers during their early working period	<i>Wang Yuzhi, Liu Jiansheng</i>	(277)
Fabrication and measurement of multimode immersed planar optical waveguide in glass plates	<i>Ruan Lizhen, Xu Jingyu, Wu Huishen, Chen Yixin</i>	(281)
A comprehensive measurement method of parameters for semiconductor lasers and its application	<i>Xiao Zongyao, Chen Lianyong, Xin Huifang</i>	(284)
Producing grating with variable spacing	<i>Chen Jianwen et al.</i>	(291)
Three color display of high density information	<i>Yu Deming et al.</i>	(295)
An undispersive four prism beam expander	<i>Tang Xingli et al.</i>	(298)
Excursion of aligned laser beam through atmosphere above water surface and land		
..... <i>Ma Jian, Tang Wu, Shen Shanxiang, Guo Zhengxing, Pan Zuoli</i>		(302)
Real time speckle shearing interferometer using Fe: LiNbO ₃ crystal.....		
..... <i>Wang Tianji, Fan Shaowu, Zhang Shichao, Li Yaotang, Xu Liangying, Su Biyun, Tong Neizhu</i>		(306)
Laser interference optometer and its application in ophthalmology		
..... <i>Chen Guojian, Shi Jinhui, Xu Jiahua</i>		(310)

SCIENCE NOTES

A He-Ne laser with eight selectable lines in 1.15 μm region	<i>Zhao Suitang et al.</i>	(314)
Observations on treating diarrhea infants with He-Ne laser acupoint irradiation		
..... <i>Pan Xiangsheng</i>		(316)
Curing enuresis by laser acupoint irradiation	<i>Wang Shupo et al.</i>	(317)
Therapy of children's mumps with He-Ne laser	<i>Tian Suqi</i>	(319)

{ LETTERS }

KCl crystals of high purity and low absorption for high power CO ₂ laser windows	<i>Rui Xue</i>	(269)
Ultrashort pulse laser system for laser satellite ranging with an accuracy of up to cm level		
..... <i>He Huijuan</i>		(290)
Laser medecine seminar sponsored by the Optical Society of China	<i>Fei Wen</i>	(290)
Large size Nd: YAG crystals of superior quality grown in SIOM	<i>Ji He</i>	(313)
Practical double heterojunction AlGaAs/GaAs laser	<i>Jin Wei</i>	(319)