

激光

(月刊)

第七卷 第三期

(总第 39 期)

一九八〇年三月

目 录

- 中国激光 20 年概貌(III).....本刊记者 纪钟 (1)
本刊通讯员 群荏
- 流动激光腔中饱和增益的基本变化规律
.....吴中祥 严海星 (5)
- 模竞争和交叉弛豫对双频激光器输出特性的影响
.....巴思旭 刘玉照 (9)
- 受激喇曼后向散射波的位相复共轭特性
.....范俊颖 吴存恺 王志英 (14)
- 关于不稳定腔模的稳定性张贵芬 (18)
- 光束方法计算固体激光棒内泵浦能的分布...陈炎兴等 (21)
- 连续运转 Ar⁺ 激光器的最佳气压分析凌一鸣 (28)
- 单个微微秒脉冲的研究.....支婷婷 唐贵琛 裘佩霞 (33)
- 甲基氟远红外激光的斯塔克频移傅思生 (38)
- 衍射极限的掺钕钇铝石榴石激光器范琦康等 (44)
- 脉冲式可调谐染料激光器的性能研究颜炳玉 (47)
- 激光直线聚焦镜尹元昭 叶桂木 (51)
- 高精度激光准直及其可能应用王绍民等 (54)

简明通讯

- TEACO₂ 激光多光子解离 CF₃CHCl₂ 分离 H、D 同位素(13)
- 重复脉冲 YAG:Nd³⁺ 激光泵浦获得相干反斯托克斯喇曼散射(60)
- 氩离子激光器声光主动锁模运转(60)
- 电子束控制放电的超声 CO 激光器首次获得激光输出(61)

科学札记

- 掺 Fe-LiNbO₃ 的全息照相性能及应用(4)
- 用激光透照法取出手指金属异物(27)
- 一次光学变换同时提取面内与离面位移信息(62)
- 氩-氦激光治疗声带小结(息肉)的疗效观察(62)
- 研究信息(五则)(63)
- 《光学学报》创刊启事.....(64)

广 告

- 1980 国际激光会议 (封四)

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)

刊号: 4-201 定价: 0.33 元

Contents

A 20 years' survey of laser science and technology in China.....	<i>The correspondent Ji Zhong, The reportor Qun Li</i>	(1)
.....		
Basic rules of saturated gain variation in a flowing laser cavity.....	<i>Wu Zhongxiang, Yan Haixing</i>	(5)
Effects of mode competition and cross relaxation on the output characteristics of the two-frequency He-Ne laser	<i>Ba Enxu, Liu Yuzhao</i>	(9)
Nature of the phase conjugation in Stimulated Raman Scattering backward-wave		
.....	<i>Fan Junyin, Wu Cunkai, Wang Zhüing</i>	(14)
On the stability of unstable cavity modes.....	<i>Zhang Guifen</i>	(18)
Pumping energy distribution in solid laser rods calculated with the light beam method.....		
.....	<i>Chen Yanxin et al.</i>	(21)
Analysis of optimum gas pressure in CW argon ion lasers.....	<i>Ling Yiming</i>	(28)
Investigation on single picosecond pulses	<i>Zhi Tingting, Tang Guisheng, QiuPeixia</i>	(33)
Stark frequency shift of the CH ₃ F far-infrared laser light.....	<i>Fu Ensheng</i>	(38)
Diffraction limited Nd:YAG laser	<i>Fan Qikang et al</i>	(44)
Research on properties of pulsed tunable dye lasers.....	<i>Yan Bingyu</i>	(47)
Laser line focusing lens	<i>Yin Yuanzhao, Ye Guimu</i>	(51)
High accuracy laser alignment and its potential applications.....	<i>Wang Shaomin et al.</i>	(54)

LETTERS

Multiphoton dissociation of CF₃CHCl₂ and H,D isotope separation by TEA CO₂ laser(13) Coherent anti-Stokes Raman Scattering obtained with repetition pulsed YAG:Nd laser pumping(60) Operation of an active acousto-optic mode-locked Ar ion laser(60) Laser output from an electron beam controlled supersonic discharge CO laser obtained for the first time(61)

SCIENCE NOTES

Holographic property of Fe-LiNbO₃ and its applications(4) Extraction of metallic foreign body in fingers with the aid of laser transmission(27) 3-dimensional displacement information extraction by optical transform(62) Observation on the effects of He-Ne laser treatment of vocal cords polyp(62) Research information(5 Items)(63)

ACTA OPTICA SINICA will start publication: Call for papers(64)

ADVERTISEMENT

1980 International Conference on Lasers, Shanghai and Beijing(Back)