

激光

(双月刊)

第6卷 第10期

1979年10月

目 录

论 文

对振动弛豫方程的推广和讨论	严海星	(1)
室温选支一氧化碳分子激光器	雷仕湛等	(6)
双放电 CO ₂ 激光器非稳定腔输出及脉冲宽度影响因素的实验研究	傅裕寿 王春奎	(9)
石英分段放电管低噪声 3.39 微米氦-氖激光器的研制	杜继祥 胡泰康 尹芳雄	(16)
封闭式高重复脉冲铜蒸气激光	邱明新等	(21)
铜离子空心阴极连续红外激光器	伍长征等	(24)
一种全息显示方法	王之江等	(26)
一种相位型再现元件——相息图	陈岩松等	(28)
同时记录两族独立应力条纹的全息光弹性法	赵晔英 梅家福	(34)
激光光声装置的建立及其对某些气体的分析	陈传文等	(38)
六角形单块铌酸锂电光 Q 开关	陈绍和 杨功成	(42)
用于激光接收的热电探测器	冯锡淇 张添立 邵黎埙	(46)
砷酸二氢铯单晶的生长	罗楚华 古开惠	(52)

简 讯

相干反斯托克斯喇曼散射实验初步取得成果(55) 激光预报某些远震获得初步成功(55)

札 记

测量万瓦级 CO₂ 激光连续输出的鼠笼式能量计(5) 激光扫描自动测控线径(8) 高信息速率 LiNbO₃ 光调制器(15) He-Ne 激光器研制中真空系统的改进(33) YAG 快速激光打孔机(56) 降低激光器着火电压的实验(57) 激光在船舶导航上的可能应用(58) 湖南省激光学会成立(27)

广 告

激光产品介绍(59)

Contents

PAPERS

Extension and discussion of vibrational relaxation equation	Yan Haixing	(1)
Branch selection CO molecular laser at room temperature	Lei Sizhan et al.	(6)
Experimental studies on the output power and pulse width variations of a double-discharge CO ₂ laser with unstable cavity.....	Fu Yushon, Wang Chunkui	(9)
Development of a low noise 3.39 μm He-Ne laser with quartz discharge tubes of separate sections	Du Jixiang, Hu Taikang, Yin Fangxiong	(16)
A sealed copper vapor laser with high repetition rate.....	Qiu Mingxin et al.	(21)
A hollow cathode CW IR copper ion laser	Wu Changsheng et al.	(24)
A reconstruction method of hologram	Wang Zhijiang et al.	(26)
A wavefront reconstructing device—kinoform	Chen Yansong et al.	(28)
Simultaneously recording of two groups of independent stress fringes by the method of holographic photoelasticity.....	Zhao Yeying, Mei Jiafu	(34)
A laser photoacoustic device and its applications in the analysis of some gases...	Chen Chuanwen et al.	(38)
Hexagonal single block LiNbO ₃ electro-optic Q-switch.....	Cheng Shaohe, Yang Gonchen	(42)
Pyro-electric detectors for laser light	Feng Xigi, Zhang Tienli, Shao Lixun	(46)
Growth of cesium dihydrogen arsenate single crystals	Luo Chuhua, Gu Kaihui	(52)

LETTERS

Preliminary results of the CARS(Coherent Anti-Stokes Raman Scattering) experiment(55) Preliminary success on forecast of some remote seism with lasers(55)

NOTES

Rat's nest calorimeter for 10 kW CO₂ laser output(5) Automatic measurement and controlling of wire diameter by laser scanning(8) LiNbO₃ optical modulator with high data rate(15) Improvement of vacuum system for He-Ne lasers(33) Fast YAG laser driller(56) Experiment on lowering firing voltage of lasers(57) Possible application of laser navigation(58) Laser Society of Hunan province established(27)

ADVERTISEMENT

Catalog of laser products(59)