

## 目 录

### 论 文

气体激光器电子束窗口中的热传输问题.....	郑承恩	(1)
不稳定腔的频谱分析(续).....	王维瑞	(8)
PIM-IM 光纤传输电视的实验 .....	范俊清 赵鲁光等	(15)
高功率高效率封离式室温 CO 分子激光器 .....	雷仕堪 张顺怡等	(21)
用负温度高能离子束的相对论多普勒效应实现从红外到 X 射线连续调谐激光器 .....	李福利	(26)
直流电泳式紫外氯-镉激光器 .....	复旦大学光学系激光组	(28)
玻璃泡子充气阀 Ar <sup>+</sup> 激光器 .....	王联治 崔大复	(31)
夹层全息技术的分析及原理性试验.....	李华涅 狄建华	(33)
高斯光束的参数及其测量方法.....	杨之昌	(39)
共焦型球面扫描干涉仪在激光模式分析中的应用.....	康 平 赵绥堂 陈天杰	(44)
用低熔点玻璃封接氯-氖激光管的一种方法 .....	马家骐 王双珍 张宝林	(50)
激光测距机在大气中的测程问题.....	宋正方	(53)
二维光学调整机构设计.....	翁明亮	(58)
关于“快门 Q 开关调 Q”的一些建议.....	朱振和	(61)

### 简 讯

用光纤已获得十级受激喇曼辐射.....	(63)
横流 CO <sub>2</sub> 激光器获 2 千瓦连续输出 .....	(63)

### 札 记

描述自聚焦光纤中光传播的几何光学法(64) 大功率激光体吸收能量计(30) 一种低功耗脉冲式激光测距仪(64) 氯-氖激光针对经络隐性传导的初步观察(49) 激光照射蜂王试验(27) 能见度测量仪(52)

## Contents

### PAPERS

On the heat transfer of the electron beam window of a gas laser .....	Zhen Chenen	(1)
Frequency spectrum analysis of an unstable cavity (continued) .....	Wang Weirui	(8)
Experiments on TV transmission by PIM-IM optical fiber.....	Fan Junqin, Zhao Luguang et al.	(15)
A high power high efficiency sealed-off CO molecular laser at room temperature .....	Lei Shishan, Chang Shunyi et al.	(21)
Continuously tunable laser from IR to X ray by relativistic Doppler effect of high energy ion beam in negative temperature state.....	Li Fuli	(26)
A DC electrophoresis ultraviolet He-Gd laser.....	Laser Group, Department of Optics, Fudan University	(28)
An Ar <sup>+</sup> laser with glass bulb inflation valves .....	Wang Lianzhi, Chui Dafu	(31)
Analysis of sandwich holography and its feasibility test .....	Li Huayu, Di Jianhua	(33)
Parameters of Gaussian beam and their measuring methods.....	Yang Zhichang	(39)
Application of confocal spherical sweeping interferometer in the analysis of laser modes.....	Kang Ping, Zhao Suitang, Cheng Tianjie	(44)
A method for sealing He-Ne laser tube by using glass of low melting point.....	Ma Jiagi, Wang Shuangzhen, Zhang Baolin	(50)
On the measurement range of laser rangefinders in atmosphere.....	Song Zenfang	(53)
Design of a two dimensional adjusting mechanism for optical instruments.....	Weng Minliang	(58)
Some suggestions on "Q-switching by a shutter Q-switch".....	Zhu Zhenhe	(61)

### LETTERS

Twelfth-order stimulated Raman Scattering obtained in optical fibre.....	(63)
A transverse flow CO <sub>2</sub> laser with about 2 KW CW output .....	(63)

### NOTES

Geometrical method for describing light propagation in self-focusing optical fibre (64)	
A bulk-absorption calorimeter for high power lasers (30)	
A low power consumption pulsed laser range-finder (64)	
Preliminary observation on hidden transmission through the <i>jing-louh</i> of He-Ne laser acupuncture effect (49)	
Experiment of queen bees irradiated by laser light (27)	
A visibility meter (52)	