

$$G_1 = \frac{G_2}{G_2^2 + (G_2 + k)^2} \quad (k = \frac{B_1}{B_2}) \quad (10)$$

therefore

$$G_1 \cdot G_2 = \frac{G_2^2}{G_2^2 + (G_2 + k)^2} \quad (11)$$

Because of

$$G_2^2 \geq 0 \quad (G_2 + k)^2 \geq 0$$

under the thermally-stable condition, there is

$$0 < G_1 \cdot G_2 < 1 \quad (12)$$

It is obvious that formula (12) is the confined stable condition of the resonant cavity. Therefore, all resonators meeting the thermally-stable condition given by formula (9) are stable resonators, and on the premise defined by formula (1), an unstable resonator can't achieve thermally-stable.

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References

- [1] Reng N, Eppich B. *Opt & Quant Electron*, 1992, 24(9):973~992
- [2] Sun Nianchun, Deng Chongjun, Cheng jie *et al.* *Laser Technology*, 1992, 16(5):298~301
- [3] Lü Beida. *Chinese Journal of Quantum Electronics*, 1990, 7(2):136~145
- [4] Lü Beida. *Laser Optics*. 2th ed. Chengdu: Sichuan University Press, 1992:282

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· 简 讯 ·

《激光技术》已进入国外光盘数据库

根据同济大学副教授胡德敬先生提供的信息,本刊1992年第16卷第6期第349~353页发表的“透射体积全息图成像的几何分析”一文,已收录入美国《工程索引(EI)》的光盘数据库(通过微机检索的打印件如后)。

本刊在国内已成为主要权威文摘的文献源,在国外,除被录入美国Ei的传统书本式印刷文献载体外,现又跨入高科技文献载体,又登上了一个新台阶。由于光盘数据库储存量大、储存期长,检索查阅极为快捷,因而利用率很高,影响面极广。

这一成绩的获得,是广大作者的支持和专家评审时以国际水平对每篇发表的论文严格把关的结果。我们诚恳希望广大作者继续合作,共同把我国的激光技术推上世界高峰而努力奋斗!

在本刊发表过论文的作者,如想了解您的论文是否录入光盘数据库,请到各地国际联机检索单位查询,并望将结果函告:610041 成都 238 信箱《激光技术》读者服务部。(本刊通讯员 供稿)

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