

合肥同步辐射装置高频腔分路阻抗的测量

@尤田束\$浙江大学无线电电子学系!杭州 @刘向东\$浙江大学无线电电子学系!杭州 @陶雄强\$浙江大学无线电电子学系!杭州

收稿日期 修回日期 网络版发布日期:

摘要 本文阐述用微扰法测量合肥同步辐射加速腔(HFSRAC)分路阻抗的理论依据和测量结果,并与电子计算机计算值进行比较。从而,对HFSRAC的特性作了初步评价。实验结果表明,HFSRAC所采用的结构及尺寸是合理的。

关键词 [铝球](#) [介质珠](#) [钛酸钡](#) [微扰](#) [分路阻抗](#)

分类号

SHUNT IMPEDANCE MEASUREMENTS ON HFSR ACCELERATING CAVITY

YOU TIANSU; LIU XIANGDONG; TAO XIONGQIANG Department of Radio Electronic Engineering, Zhejiang University, Hangzhou

Abstract This paper describes the methods of shunt impedance measurements according to Slater's perturbation theorem on the Hefei Synchro Radiation Accelerating Cavity (HFSRAC). The results are compared to the computer calculated shunt impedance. The performances are also evaluated initially. The experiments show that the design and dimensions of the HFSRAC are reasonable.

Key words [Aluminium sphere](#) [Dielectric bead](#) [Perturbation](#) [Shunt impedance](#)

DOI

通讯作者

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [\[PDF全文\]\(320KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含“铝球”的 相关文章](#)
- ▶ [本文作者相关文章](#)