

螺旋型天線單瓣輻射的研究

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摘要

本論文提出在螺旋型天線背部共振腔裡嵌入頻率選擇面的概念,以減少此寬頻天線的背向輻射和去極化的缺陷。為了證明,本論文用一個單臂螺旋天線加入有/無頻率選擇面的共振腔,與原始的螺旋型天線相比。共振腔使天線增強了正向輻射和降低了背向輻射;此外,螺旋型天線加入了有頻率選擇面的共振腔,特別是在去極化減少和正向輻射的提高有更顯著的影響。

關鍵詞:螺旋型天線、頻率選擇面

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