

利用電磁能隙結構抑制三頻天線之不通訊頻帶

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摘要

本文利用共平面矩形槽孔設計天線，運用單頻天線加入環型線路共振其他頻帶，利用HFSS電磁場數值模擬軟體探討各類參數，以及單頻到三頻各架構的共振機制，了解機制與參數的影響，透過調整後，使2.4GHz單頻矩形槽孔天線改變成符合DCS / PCS、WLAN、WiMAX等規範天線，使天線運用更加廣泛。本篇也加入了EBG架構抑制不必要頻帶，並探討加入EBG後對天線機制的各種影響。

關鍵詞：共平面波導天線

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