Guidelines for Student Reports

ANALISI E DISING DI ANTENNE IN MICROSTRISCIA MULTI-LAYER CON PSO

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Abstract

L'utilizzo di antenne in microstriscia stratificate permette di ottenere dispositivi a banda più larga e in certi casi con un comportamento multi-banda. Il progetto si prefigge lo scopo di analizzare il comportamento dei dispositivi in microstriscia nei casi in cui il substrato sia composto da più layer di caratteristiche differenti o considerando particolari andamenti della permettività dielettrica. Tale strategia potrebbe consentire una maggior miniaturizzazione consentendo uno shift della frequenza di risonanza. Inoltre, sono molto utilizzate anche strutture tipo stacked-patch. Solitamente si utilizza una configurazione in cui la patch sul fondo è alimentata direttamente mediante coassiale o linea in microstriscia, mentre quelle superiori sono alimentate per accoppiamento. E' possibile investigare nuove configurazioni di patch considerando diverse configurazioni di materiali e forme delle metallizzazioni.

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