URN etd-0407109-183719-1588
Author Shan-Chun Wu
Author's Email Address No Public.
Statistics This thesis had been viewed 56 times. Download 0 times.
Department
Year 2004
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title Design of Planar Monopole Antenna with Broad/Dual Band Operation
Date of Defense 0000-00-00
Page Count 71

Keyword
monolope antenna
CPW-fed
elliptical disc

Abstract
In this paper, the series of designs and studies for planar monopole antenna are presented. I'll illustrate the subjects of a broadband domain and a dual-band domain separately. It is the disc monopole antenna that we design the base of broadband. For the feature of elliptical disc product more kinds resonant modes, we can up to the effect of broadband. The yielded maximum band-width for return loss > 10 dB is between 1.8 GHz to 6 GHz. We modify the structure of elliptical disc which add the slot to reduce the size of the antenna. In that way, we can improve the antenna radiation pattern and decline cost; in the dual-band designs, we adopt the CPW-fed to replace the microstrip-fed. Therefore, taking the CPW-fed product the effect of dual-band, we make range of frequency band between 2.45 GHz and 5.2 GHz.

The performance we have achieved in these antenna designs not only satisfy the wireless communication application of the system, but also show good antenna pattern and gain.
Advisory Committee Wen-Shen Chen - advisor

Files No Any Full Text File.
Date of Submission 2005-07-25