URN etd-0407109-183725-2090
Author Chin-Hsin Kao
Author's Email Address No Public.
Statistics This thesis had been viewed 60 times. Download 30 times.
Department
Year 2005
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title A New Design of Antenna with Broad/Dual Band Operation
Date of Defense 0000-00-00
Page Count 72

Keyword
broadband
dual-band
microstrip-line-fed/CPW feed

Abstract
The designs of the antennas for broadband and dual-band characteristic have been investigated in this paper. The major topics of this paper include the printed slot of microstrip-line-fed antenna and the coplanar waveguide (CPW) fed antenna. The printed microstrip-line-fed slot antenna consists of a printed microstrip-line-fed adding one copper slice bend, a three-dimensional microstrip-line structure. For the feature of three-dimensional microstrip-line slot antenna generates several resonant modes to reach broadband, then we observe various three-dimensional microstrip-line forms that caused broadband operation of the antenna. In the series, maximum impedance bandwidth of the proposed antenna can achieve 55%.
The second proposed antenna adopts CPW feed. Due to added a triangle microstrip-loop leading to dual-band operation, and trim the triangle microstrip-loop parameters to observe the performances of the proposed antenna. The proposed antenna generates the dual-band operation that the impedance bandwidth of the low band can achieve 35% and high band can achieve 25%.
In this paper we not only investigate the impedance bandwidth of the antenna, but also radiation patterns and gain.
Advisory Committee Wen-Shan Chen - advisor

Files etd-0407109-183725-2090-001.pdf

indicate access worldwide
Date of Submission 2006-07-31