



Georgios Giannakopoulos

Design a 1.3 GHz Microstrip Patch Antenna for a PAL TV signal

A guidance on how to design a Microstrip Patch Antenna (2D) using Ansoft Designer



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Design a 1.3 GHz Microstrip Patch Antenna for a PAL TV signal

By Giannakopoulos, Georgios

Book Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | A guidance on how to design a Microstrip Patch Antenna (2D) using Ansoft Designer | This book is concerned with the design, construction and testing of a 1.3GHz microstrip rectangular patch antenna. The patch antenna incorporated a feed-line on the PCB board. The first part of the design of the antenna involved the computation of the dimensions of the patch to achieve a fundamental frequency of 1.3GHz. The accuracy of the computed dimensions was confirmed on an Ansoft Designer simulation package by examining the return loss of the antenna at the resonant frequencies. The second part of the design of the antenna involved the computation of the performance of the antenna. A number of parameters were evaluated which included electric field, E and H planes, radiation pattern, radiation, conductance, directivity and efficiency. The use of approximate formulas, the MAPLE computer algebra package and the MATLAB package were used to evaluate the formulas for predicting the antenna parameters. Computations of the various performance parameters were confirmed on the Ansoft Designer simulator. The microstrip rectangular patch antenna was constructed in the laboratory and tested on a Network Analyzer. The responses showed good agreement...



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