ABSTRACT

Microstrip antenna has been developed as a light mass and can adjust the

shape of the place is laid. Method of rationing on the antenna can be divided into

three, namely microstrip rationing, rationing probe, and rationing

(electromagnetically coupled). EMC method was first proposed by KF Lee, which

is designed to produce a wide bandwidth.

In this final project made triangular antenna operating at a frequency of

2.3 GHz to support teknologiwifi. The study also developed a method for rationing

rationing method microstrip antenna is electromagnetically coupled with a

triangular patch form array method. By using unwanted radiation become less

and has the advantage of offering wideband characteristics without a matching

circuit. rationing method can overcome the drawbacks of conventional microstrip

antenna has a narrow bandwidth characteristics. The microstrip antenna design

using method with L-strip feeder structure. This antenna is designed and then

simulated using software simulation simulator. Pada, repetition antenna

dimensions to obtain results that are in accordance with the design specifications

of the antenna by changing the dimention of antenna. Simulation results obtained,

implemented using materials, namely copper.

In this final project has successfully created a triangular array antenna

rationing which has > 3 dBi gain at VSWR ≤ 1.5 with working frequency of 2.3

GHz. This antenna is designed with EMC to get bandwidth wide enough.

KeyWords: wimax, array, patch, dan grounplane

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