ABSTRACT

Growing telecommunications technology, the antenna is one small part of

the development of these technologies. The antenna used to radiate a guided wave

to space propagation. Basically the antenna has many types, from simple to very

complex forms, which each species has a characteristic of each. Usefulness of the

antenna has been widely applied for the benefit of telecommunications, including

wireless communications on certain frequencies.

Final project entitled "Design and Realization of Microstrip Antenna

Multiband With Modified Fractal slot by Coplanar Waveguide" discusses the

design of fractal antenna to form rectangular curve. Designed antenna is a fractal

antenna printed on a plate of copper on FR4 epoxy substrate. Initial design of the

antenna using a software simulator Ansof Hfss'11 assistance.

Antenna has been realized in this final project is the kind of fractal

antenna. Fractal shapes are geometric shapes that can be fragmented or divided

into smaller parts, which if the result of the division process is extended, will have

a shape similar to the original form. Fractal antenna is created that has VSWR ≤ 2

with working frequency of 1.71 GHz-1.88 GHz, 3.30GHz-3.80GHz and

5.15GHz-5.35GHz, the antenna has a gain > 3dBi, antenna polarization is realized

elips.

Keywords: Fractal, coplanar waveguide, VSWR, multiband

iv