ABSTRACT

Light size measure, easily fabricated and integration, easy in installation, big gain are representing characteristic of hotspot antenna. Waveguide antenna fulfill the above mentioned characteristic and its price even also cheap. To increase gain of hotspot antenna application, hence at this final project will be designed and realized a waveguide for WIFI antenna application in frequency 2,4 GHZ use array slot method. At frequency range 2400 - 2450 MHz the appropriate measurement result in VSWR ≤ 1,17. The radiation pattern of the antenna is omnidirectional. The reachable gain of this antenna until 7.14 dBi. Coaxial feed is used and Ansoft HFSS 9.2 as the simulator software at this final project.

Key word : Waveguide antenna, WIFI, Coaxial feed