Abstract

This paper presents the design and simulation of suspended E-shape microstrip patch antenna. This shape will provide the wide bandwidth by introducing two parallel slots into a rectangular patch. The antenna design is simulated using HFSS software. The performance of the designed antenna was analyzed in terms of bandwidth, gain, return loss, VSWR, and radiation pattern (3D). Dielectric Substrate FR4 having a dielectric constant of 4.4 is used. This antenna design is simulated using HFSS simulator (High Frequency Structure Simulator). The antenna is able to operate from 2.405 GHz to 2.525 GHz frequency band.
References

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Index Terms

Computer Science Wireless Networks
Keywords
Suspended E Shape Msa  Coaxial Probe Feeding