On the Design of Triangular Microstrip Antenna for Wireless Communication

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Abstract

Microstrip patch antenna has attracted wide interest due to its important properties such as light weight, low profile, simple to fabricate and easy to integrate with RF devices. In this paper very small size triangular microstrip antenna is designed by using method of moments (MoM) based IE3D software for wireless communication. The proposed antenna is compact, small, simple to design and fabricate. This antenna can be used for transmission and reception of radio signal at frequency of 13.34GHz. Antenna has a good gain of 4.7858db at resonant frequency of 13.34GHz GHz has large bandwidth of 1.39GHz. Also effect of different
commercially available materials Roger RT 5880 Duriod, Roger 5870, Benzocyclobuten and Epoxy on the performance parameters of this antenna has been studied and Roger 5870 found good material for the design of this antenna.

Reference


Index Terms

Computer Science Communications
Key words

Antenna Design

Gain

Triangular Microstrip