Abstract

Microstrip Patch antennas are very prevalent these days due to various attractive features possessed by them. Coplanar Waveguide (CPW) fed patch antenna has benefits of compact size, ease of fabrication and integration with other monolithic circuits. Moreover, the proposed design is very simple design fed with CPW feed. The proposed antenna performs dual band (1.5 GHz and 7 GHz) operation with later band being wideband ranging from 5.32 GHz to 8.27 GHz. Thus, acting as directional wideband antenna with total impedance bandwidth of 2.95 GHz (42%). In addition, various geometric parameters of designed antenna have been varied in order to obtain the desired performance. The Proposed antenna has been designed and simulated using 3D finite element based electromagnetic solver HFSS.

References


**Index Terms**

| Computer Science | Wireless |

**Keywords**

Microstrip Patch Antennas  Coplanar Waveguide (CPW)  Wideband  Return Loss (S11)