Abstract

A new triple band microstrip patch antenna is presented in this paper for wireless communication. By adjusting the dimension of ground plane and patch, its fractional bandwidth at primary resonance mode can increased sufficiently to achieve desired bandwidth of proposed antenna. In proposed design, it has been found that the symmetrical position of patch over ground plane have clear impact on overall antenna performance. Many antenna structures have been modeled to demonstrate the effects of these parameters on the resulting triple band response. We design antenna for (1.07-1.75GHz), (3.22-4.35) and (5.78-6.5GHz).

References

Media, LLC, pp. 1346-1354, 2010

Index Terms
Computer Science Wireless

Keywords
Microstrip antenna, Dielectric Patch antenna, Length; Losses; strip width; strip length.