Abstract

Combining the antenna miniaturization and bandwidth preservation could increase the challenges of integrating the smaller, thinner, low profile, high efficient antennas into equipment for different applications. In this paper, a novel Microstrip Patch Antenna with reduced size for WLAN application is proposed. Introducing in-plane Split Ring Resonators (SRRs) in the vicinity of the patch, and found that the configuration escalated the miniaturization by 42%. The simulated results showed that there was significant improvement in bandwidth. The design and performance analysis of the proposed antenna was carried out using Ansoft HFSS.
References

- A. Boufrioua and A. Benghialia, "Effects of the resistive patch and the uniaxial

Index Terms
Computer Science

Wireless

Keywords
Compact Electromagnetic Bandgap Metamaterials Microstrip Miniaturization.