Abstract

This paper aims to analyze the effect of application of defected ground structure (DGS) on the resonating properties of microstrip patch antenna. In order to obtain the comparative results a small size DGS has been introduced in the ground plane exactly under the feeding strip of the patch antenna. The representative results obtained from the simulations have revealed that the proposed antenna with DGS possesses better impedance matching and wider bandwidth than
its original structure without DGS. The presented antenna is small size and low profile antenna suitable for X-band applications.

References


Index Terms

Computer Science
Antennas

Keywords
Bandwidth  Dgs  Return Loss.