Abstract

In this paper, the execution of rectangular patch antenna is mended applying a newly cylindrical electromagnetic band-gap (EBG) substrate. The microstrip patch antenna is fed in the driven terminal. This EBG structure, when constituted with microstrip patch antenna to radiation pattern and return loss got from menstruation appearance a better impedance matching and a gain enhancement of the directed antenna. The gain utilizing the designed structure has been found to be 5.5123dB, which are merits for transmitting data over a retentive distance. Wideband antenna detects its applications in mobile sensors, data ingathering and tracking diligence.

References

Design of Rectangular Microstrip Patch Antenna by Improving the Performance Parameters with EBG Structures


Index Terms
Computer Science Communications
Keywords
Microstrip patch antenna  Gain  Electromagnetic band gap structure