Abstract

This geometry can offer certain characteristics that can’t be achieve by planner antenna. Antenna is design to function in 2.4 GHz wireless radio band. This work present performance of 4-element conformal antenna array for cylindrical surface and observe effect of mutual coupling between patch. In this, angle is preserved to conform the shape to reduce extra drag. The radius of cylinder is considered to be atleast one quarter wavelength or slightly more. The simulated results shows its resonant frequency is not affected with change in curvature however the radiation patterns are significantly affected more in elevation direction and less in azimuth. Simulations has been carried on CST software.

References

Performance Analysis of Microstrip Conformal Antenna Array and Effect of Mutual Coupling for Different Curvature


Index Terms

Computer Science Wireless

Keywords

Conformal antenna array, CST studio suite, mutual coupling, microstrip patch antenna.