Abstract
This geometry can offer certain characteristics that can't be achieved by planner antenna. Antenna is designed to function in 2.4 GHz wireless radio band. This work presents the performance of 4-element conformal antenna array for cylindrical surface and observes the effect of mutual coupling between patches. In this, angle is preserved to conform to the shape to reduce extra drag. The radius of cylinder is considered to be at least one quarter wavelength or slightly more. The simulated results show 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 have been carried on CST software.

References


Index Terms

Computer Science Wireless

Keywords

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