

Miniaturization and broadbanding techniques for Folded Meander Line Microstrip Antennas

Abstract:

In this paper a folded meander line antenna (FMLA) had been designed to operate in WLAN b/g band. Fabricated on a FR-4 board for single layer prototype and RO3010 for two layers prototype. The design of this antenna is utilized through the usage of folded meander line. dasiaViapsila will be used to increase the bandwidth for this antenna and at the same time implementing proximity coupled method. Thus, this project will show on the use of dasiaviapsila and proximity coupled as a widening technique by implementation within CST software. These techniques are used as a mean that can be applied in this antenna design and also can give an effect on the antenna characteristics. It can increase the efficiency and effectiveness of the antenna in its function.