Abstract

This paper presents Microstrip antenna in the application for a military band short range radio communication system ultra high frequency(UHF), at a frequency range of 1Ghz – 1.5Ghz. Currently, most military aviation platforms are equipped with UHF communication system for their operational requirements, a design studies in the development for a lightweight, low volume, low profile. Hence, in this paper, bandwidth enhancement techniques such as use of various substrate with low relative dielectric constant (Er), size of antenna as well as U slotted patch antenna with coaxial probe feed technique are discussed and explained using optimization program in java and the genetic algorithm is developed.

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Design and Analysis of Rectangular and U Slotted Microstrip Patch using Optimization Program in Java for UHF Applications


**Index Terms**

Computer Science

Communication Systems

**Key words**

Optimization program

genetic algorithm

UHF

U slot