Experimental Simulative Analysis Feed Point of Rectangular U Slot Microstrip Patch Antenna

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 129
Number 11

Year of Publication: 2015

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10.5120/ijca2015906933

Abstract

The main focus of this paper is to study and analyze how the performance of rectangular U slot antenna is affected by the parameters like Feed point position. The work presented herein is a simulation based study. Experimentally, it has been revealed that variations in parameters such as the width and length of the U-slot, height and size of the patch, probe size and location as well as substrate permittivity can dramatically change the antenna’s behavior. Till date, no analytical methods have been developed that accurately relate the complex relationships between the antenna dimensions and individuality. This paper describes the behavior of antenna with change of feed point position. A numerical solution is obtained by varying the various positions of feed point along all the axis and the effect of U slot position on various antenna output parameters is analyzed.

References


Index Terms

Computer Science Wireless

Keywords

Microstrip Patch Antenna, Return Loss, Gain, Bandwidth.