Design of 3-Side Truncated Patch Antenna with Semi-Circular Open Slot for UWB Applications

IJCA Proceedings on International Conference on Advancements in Engineering and Technology

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ICAET 2015 - Number 2

Year of Publication: 2015

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{bibtex}icaet4025.bib{/bibtex}

Abstract

A 3-sided truncated microstrip patch antenna with semicircular open slot for ultra-wideband (UWB) and SHF (Super High Frequency) applications has been presented in this paper. The proposed antenna is compact in size and designed on FR4 substrate. From the simulation and measurement results, it is shown that the corner-truncated With Semi Circular open slot patch scheme is an excellent approach, which can be used to make the proposed antenna match well
over an enhanced impedance bandwidth of 12.13 GHz (2.26~14.39 GHz), for a -10dB return loss. The results of proposed antenna are presented by using HFSS. The proposed antenna is feasible for WLAN, WiMAX, Wi-Fi and other various wireless applications.

References

Index Terms
Computer Science
Communications

Keywords
Patch Antenna  Return Loss  Uwb