

## Abstract Details

**Title:** Analysis and Design the Slotted Bowtie Antenna

**Authors:** Pooja Singh and Ankit Kumar

**Abstract:** The demand of compact, efficient and economical communication devices has been tremendously increased. Same demand has been observed in antennas for multi-band applications. In this work, different designs of bowtie antennas are studied. The proposed antennas are designed, and results are evaluated to study different output parameters. The results confirmed that the proposed antennas may be useful for different mobile communication systems and Wireless applications. The results showed sufficient isolation among the operating frequency bands with improvement in gain and directivity. The results obtained had showed better improvement in the return loss and radiation pattern in comparison to the other existing antenna. The resonant frequency for the return loss of the design antenna is 9.2 GHz.

**Keywords:** Micro strip patch antenna, insertion loss, multi-band, mobile communication, bowtie antenna.