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Design and Fabrication of Dual band Slotted Microstrip Patch Antenna - 3.5 Ghz and 2.4 Ghz

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Abstract



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The paper outlines a proposed design for a slotted dual band patch antenna of microstrip nature which is fed over a coaxial feed a 50Ω with the help of an inset type of a... **View more**

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Abstract:

The paper outlines a proposed design for a slotted dual band patch antenna of microstrip nature which is fed over a coaxial feed a 50Ω with the help of an inset type of a feeding system over the FR4 substrate (with 4.4 dielectric constant with 1.6 thickness) for 3.5 Ghz and 2.4 Ghz frequency bands. The antenna gives dual-band characteristics covering frequency bands of 3.5 Ghz and 2.4 Ghz respectively. A 3D electromagnetic simulator Ansys HFSS 15.0.3 was used for designing the above mentioned antenna. The simulation results that demonstrate a dual band frequency of 2.29 Ghz and 3.34 Ghz, with gain indicating 1.058 dB and 7.01 dB and return losses -14.24 dB and -12.01 dB are obtained. The patterns of radiations were also omni directional when measured in the higher band.

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