Analysis of V-Shaped Ultra-wideband Antenna

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Abstract

A V-shaped ultra-wideband antenna has been analyzed. Firstly, a rectangular planar monopole antenna has been studied and its base is tapered to obtain a better bandwidth. The feed-line is then offset for impedance matching. A bandwidth of around 14.3 GHz is obtained for this configuration. Then, a V-slot is cut in the patch and a parametric study of the width of the V-slot, the width of the patch and the strip is conducted. The optimum configuration yields a bandwidth of 14.6 GHz.

References

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Index Terms

Computer Science Wireless
Keywords
Ultra Wideband  Planar Monopole Antenna  V-slot.