A Modified Omnidirectional Bi-Conical Broad Band Antenna for VHF and UHF Range

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Abstract

In the proposed design a novel bi-conical antenna that is used for VHF as well as UHF range. The proposed antenna shows a wide band and cover VHF and UHF ranges whose frequencies is between 30 to above 310 MHz. The range of proposed design covers the television and radio communication range. Also shows the good result in terms of return loss that is (S-11) -52.27 dB as well as VSWR that is 1.02 and important parameter is percentage bandwidth is 142.85%. The proposed design shows good result as compared to other previous method's results on the basis of basic antenna parameters such as VSWR, Return Loss and bandwidth.

References


Index Terms

Computer Science          Communications

Keywords

Return loss (S-11), VSWR, UHF and VHF ranges.