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Wide Band Printed Bowtie Antenna

ABSTRACT: A microstrip-fed printed bow-tie antenna is presented in order to achieve wide bandwidth, high gain, and size reduction. A comparison between the bow-tie and the quasi-Yagi (dipole and director) antennas shows that the bow-tie antenna has a wider bandwidth, higher gain, lower front-to-back ratio,

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lower cross-polarization level, and

WIDEBAND MICROSTRIP-FED PRINTED BOW-TIE ANTENNA FOR PHASED ...

Wide-band modified printed bow-tie antenna with single and dual polarization for C - and X-band applications. Abstract: A modified

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printed bow-tie antenna is designed to simultaneously cover the operations in the C and X-bands from 5.5 to 12.5 GHz. The presented antenna has an end fire radiation pattern that makes it suitable for integration in single and dual polarized phased array systems.

Wide-band modified printed bow-tie

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Study and Implementation of Wideband
Bow-Tie Antennas Md Rakibul Islam

Follow this and additional works at: <https://digitalcommons.georgiasouthern.edu/etd> Part of the Electromagnetics and Photonics Commons Recommended Citation Islam, Md Rakibul, "Study and Implementation of Wideband Bow-Tie

Read PDF Wide Band Printed Bowtie Antenna Element Development For Antennas" (2017).

Study and Implementation of Wideband Bow-Tie Antennas

WIDEBAND SLOT AND PRINTED
ANTENNAS 5 spectively, for an
approximate characteristic impedance of
1000. Thus the total width of the
antenna is 7mm, which is 20% less than

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the quasi-Yagi antenna reported in Refs. 7 and 8. This antenna is simulated using Ansoft HFSS, and the computed return loss is shown in Fig. 11b.

WIDEBAND SLOT AND PRINTED ANTENNAS - Today at Mines

The present invention relates to a printed antenna, which has an ultra wide-

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band (“UWB”) frequency range. The ultra wideband antenna is loaded on UWB wireless devices for its use. Therefore, it is required to be low and small profile, light weight and low cost.

Ultra wideband bow-tie printed antenna - National ...

In this paper, a wideband unidirectional

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bowtie antenna is proposed. It is differentially fed by a wideband printed microstrip balun with triangular coupling feeding structure. The rounded bowtie dipole with slot load can make the antenna have a better impedance matching.

Wideband Unidirectional Bowtie

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Bowtie Antenna Calculator. EXAMPLE of
Bowtie Antenna: INPUTS : Operating
Frequency = 2400. OUTPUTS:
Wavelength = 125 mm, BW = 792 MHz,
Width = 46.875 mm, Distance = 2.5825
mm , Height = 31.25 mm.

Bowtie Antenna basics | Bowtie

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Figure 2. The Bow Tie Antenna. This antenna will have a similar radiation pattern to the dipole antenna, and will have vertical polarization. A $L=76.5\text{mm}$ Bow Tie antenna with width $W = 36\text{mm}$ (so that the angle $D=2*\text{atan}(76.5/36)= 130$ degrees). This antenna was mocked up as shown in Figure 3: Figure 3. A

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76.5mm Bow Tie Antenna. The real bow tie antenna of Figure 3 is fed with a coaxial cable.

Bow Tie Antennas - Antenna Theory

In addition, a wideband AMC is recently designed in as the ground plane of a bowtie antenna for gain enhancement and low profile. The distance between

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the antenna and the AMC is $\lambda/8$ in free space at 1.7GHz, while the relative bandwidth of the combined antenna is only 16.7% (1.64–1.94GHz).

Broadband and Gain Enhanced Bowtie Antenna with AMC Ground

This type of antenna is known as a wide-band printed bowtie antenna. This is a

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traditional TV antenna style, although the dimensions were carefully chosen by Mohu for optimum reception. A Comparison. Just to compare, here's a photo of a Winegard FlatWave Amped antenna. It's clear so you can easily see the design:

What's Inside a Mohu Leaf Antenna?

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| **DisableMyCable.com**

Figure 1 Geometry and dimensions of the printed bow-tie antenna The antenna consists of a half-wavelength dipole and an approximately quarter-wavelength rectangular director in order to increase the gain and improve the front-to-back ratio.

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A modified printed bow-tie antenna is designed to simultaneously cover the operations in the C and X-bands from 5.5 to 12.5 GHz. The presented antenna has an end fire radiation pattern that makes it suitable for integration in single and dual polarized phased array

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systems. The antenna exhibits small size and wide bandwidth of 91%.

[PDF] Wide-band modified printed bow-tie antenna with ...

A coplanar waveguide-fed broadband printed slot antenna with linear taper is presented in to increase the impedance bandwidth. The bow tie slot antenna has

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been studied and has shown a wide bandwidth approaching 40%. In this present work, the antenna is designed using a new type of tapering structure with CPW-fed to achieve wide bandwidth.

CPW-Fed Slot Antenna for Wideband Applications

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A design concept for a compact ultra-wideband printed bowtie antenna is presented in this paper. The antenna is designed for wideband applications over a 500 MHz-2.5 GHz frequency band.

**(PDF) Ultra Wideband (UWB)
antenna design for cognitive ...**

The Metal Patch realizes the two electric

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dipoles and the horizontal portion of the shorted bowtie antenna printed on the bottom side of a dielectric substrate. ...

Yang, X. Zhang, X. Ye, and Y. Rahmat-Samii, "Wide-band E-shaped patch antennas for wireless communications," IEEE Trans. Antennas Propag., vol. 49, no. 7, pp. 1094-1100, Jul ...

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A Low-Profile Wideband Planar Antenna - IEEE Xplore ...

Abstract A printed bowtie antenna for a Post Reception Synthetic Focussing Surface Penetrating Radar (PRSF-SPR) has been developed with the aid of FDTD analysis. Antenna free space characteristics were compared against practical measurements and its

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performance was analysed when soil is present.

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This is more critical with respect to the UWB Antenna. Printed Bow-Tie Antenna UWB Antenna Design Challenge Compact size while providing

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acceptable: 1- VSWR 2- Bandwidth 3- Gain 4- Efficiency Omni-directional pattern To be suitable for on chip design, with good impedance matching Light weight Low cost UWB Printed Bow-Tie Antenna Wideband Mechanism of Printed Bow-Tie Antenna Results Results September 2003 CRL-UWB Consortium
ULTRA WIDEBAND PRINTED BOW-TIE

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Singapore 802.15.3a Meeting

This paper presents a new design of a compact, high-gain coplanar waveguide-fed antenna and proposes a multielement approach to attain enhanced characteristics. The proposed method overcomes the simulation and

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geometrical complexity and achieves optimal performance features. The antenna prototype is carefully designed, and simulation results have been analyzed. The proposed antenna was ...

A Compact High-Gain Coplanar Waveguide-Fed Antenna for ...

A simple method is proposed for

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enhancement in bandwidth and gain of the self complementary Bowtie antenna. This method overcomes the use of complicated fractal structures to increase the bandwidth and gain of the Bowtie antenna. Using this simple method, by making variation of the single dimension of the antenna structure, the bandwidth is improved by

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21% and return loss S_{11} is also improved ...

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