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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
com-parison between

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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, lower cross-polarization level, and

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

Wide-band modified printed bow-tie

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antenna with single
and dual polarization
for C - and X-band
applications. Abstract:

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 systems.

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**Wide-band modified
printed bow-tie
antenna with single
and ...**

Study and

Implementation of

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Antennas Md Rakibul

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Islam, Md Rakibul,
"Study and
Implementation of
Wideband Bow-Tie
Antennas" (2017).

**Study and
Implementation of
Wideband Bow-Tie
Antennas**

WIDEBAND SLOT AND
PRINTED ANTENNAS 5

spectively, for an
approximate
characteristic
impedance of 100Ω.

Thus the total width of

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the antenna is 7mm, which is 20% less than 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

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ultra wide-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 bowtie

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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 Antenna with
Pattern ...**

Bowtie Antenna

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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
Antenna Calculator**

Figure 2. The Bow Tie
Antenna. This antenna
will have a similar

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

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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 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%

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(1.64-1.94GHz).
Antenna Element
**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 traditional TV antenna style, although the dimensions were carefully chosen by Mohu for optimum reception. A Comparison, Just to

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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?

|

DisableMyCable.com

Figure 1 Geometry and dimensions of the printed bow-tie antenna The antenna consists of a half-wavelength dipole and

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an approximately quarter-wavelength rectangular director in order to increase the gain and improve the front-to-back ratio.

**WIDEBAND
MICROSTRIP-FED
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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.

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The presented antenna has an end fire radiation pattern that makes it suitable for integration in single and dual polarized phased array 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

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slot antenna with linear taper is presented in to increase the impedance bandwidth.

The bow tie slot antenna has 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

Page 19/28

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**Antenna for
Wideband
Applications**

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**

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cognitive ...

The Metal Patch
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realizes the two
electric 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,

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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

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practical
measurements and its
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
acceptable: 1- VSWR 2-

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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
ANTENNA Presentation

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Antenna Element
Development For
**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 geometrical complexity

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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 enhancement in bandwidth and gain of

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the self
complementary Bowtie
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Development For
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 21% and return loss
 S_{11} is also improved ...

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ecf8427e.