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provides a carefully structured, elegant discussion of the fundamental principles of the radiating elements and has been written as an ...

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## **Metamaterial inspired DNG superstrate for ... - Cambridge Core**

DESIGN OF METAMATERIAL INSPIRED  
HIGH GAIN PATCH ANTENNA T.

Sathiyapriya, V. Gurunathan and A.

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Shafeek Department of Electronics and  
Communication Engineering, Dr.  
Mahalingam College of Engineering and  
Technology, India Abstract This paper  
investigates the single band microstrip  
antenna loaded with meta-material.

## **DESIGN OF METAMATERIAL INSPIRED HIGH GAIN PATCH**

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As shown in Fig. 5, the RIS employed on the antenna affects the near-field distribution on the ground, thus making the radiation patterns of the antenna different from those of an ordinary patch antenna. At 1.8 GHz, the metamaterial-based antenna tends to radiate in the direction perpendicular to the axis of the

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feeding microstrip of the antenna.

## **Metamaterial Extends Patch Antenna Bandwidth | Microwaves & RF**

In addition to providing more than 6-dB gain compared to a conventional microstrip antenna, these metamaterial-equipped antenna designs also feature

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increased bandwidth (from 3.64% to 4.68%) when compared to a

conventional microstrip design. 1. These are the dimensions of the microstrip antenna.

### **Metamaterial Enhances Microstrip Antenna Gain | Microwaves ...**

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Antenna on Metamaterial | This paper proposes a novel design of a compact microstrip antenna on a metamaterial (MTM) substrate. This antenna is composed of a ...

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A dual layer periodically patterned

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metamaterial inspired antenna on a low cost FR4 substrate is designed, simulated, fabricated, and tested. The eigenmode dispersion simulations are performed indicating the left handed metamaterial characteristics and are tunable with substrate permittivity. The same metamaterial unit cell structure is utilized to fabricate a metascreen. This

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## And Simulation Of Microstrip Patch **Metamaterial Inspired Microstrip Antenna Investigations ...**

Fig. 4 shows the geometry of the proposed antenna integrated with metamaterial inspired superstrate. The proposed antenna is modeled using ansys high frequency structure simulator



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using FDTD method. The photonic crystal is used as a superstrate which has a thickness of 1.6 mm and size of 61.25 mm  $\times$  61.25 mm and is placed at 1.6 mm above the patch antenna model.

### **Gain enhancement of patch antenna integrated with ...**

The metamaterial unit cell is placed

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above the hexagonal patch of the inset feed. The size of the hexagonal microstrip antenna is small compared to square, circle shaped patch antennas so hexagonal shape is taken. The circular patch antenna was designed and then modified to hexagonal shaped patch antenna.

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### **Metamaterial cell inspired high gain multiband antenna for ...**

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[27] C. Arora S. S. Pattnaik and R. N. Baral “Metamaterial Inspired DNG Superstrate for Performance Improvement of Microstrip Patch Antenna Array” International Journal of Microwave Wireless Technologies vol. 10 no. 3 pp. 318-327 2018.

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## Antenna Designing Modeling And Simulation Of Microstrip Patch

### **Metamaterial superstrate microstrip patch antenna for 5G ...**

Abstract—A compact dual-band metamaterial-inspired antenna is designed and developed in this paper. This design is carried out by loading a stub (acts as virtual ground plane) onto a circular microstrip fed patch antenna. The proposed antenna resonates at two

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frequencies  $f_{c1} = 2.70\text{GHz}$

## **A Compact Dual-Band Metamaterial Inspired Antenna with ...**

Antenna designs incorporating metamaterials can step-up the antenna's radiated power. Conventional antennas that are very small compared to the wavelength reflect most of the

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signal back to the source. A metamaterial antenna behaves as if it were much larger than its actual size, because its novel structure stores and re-radiates energy.

## **Metamaterial antenna - Wikipedia**

A compact metamaterial inspired antenna operate at LTE, Bluetooth and

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WiMAX frequency band is introduced in this paper. For the lower band, the design utilizes an outer square metallic strip ...

## **Dual Band Metamaterial Antenna For LTE/Bluetooth/WiMAX ...**

METAMATERIAL INSPIRED IMPROVED  
ANTENNAS AND CIRCUITS DAVI BIBIANO



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**METAMATERIAL INSPIRED  
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Design a Microstrip Patch Antenna  
inspired by Metamaterial Structures for  
Wireless Applications Ravi Kumar<sup>1</sup> B.S.  
Rai<sup>2</sup> 1M.Tech. Scholar 2Professor  
1,2Department of Electronics &  
Communication Engineering 1,2M.M.M

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Antenna Designing Modeling  
University of Technology Abstract—In  
this paper, the proposed antenna design

is

## **Design a Microstrip Patch Antenna inspired by Metamaterial ...**

patch antenna. Metamaterial based  
rectangular microstrip patch antenna  
improves the bandwidth and return loss

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in significant way. CST MICROWAVE STUDIO is a software package for the electromagnetic analysis and design, use to design the metamaterial based rectangular microstrip patch antenna.

## **DESIGN AND ANALYSIS OF RECTANGULAR MICROSTRIP METAMATERIAL**

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The MSRR inspired antenna is fabricated on an inexpensive FR4 substrate with dielectric constant  $\epsilon_r = 4.4$  and thickness of 1.6mm. Figure 2. Geometry of proposed inset fed rectangular microstrip patch antenna with MSRR loading. Figure 3. Photograph of proposed inset fed microstrip patch antenna with MSRR loading.

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## **An Inset-Fed Rectangular Microstrip Patch Antenna with ...**

This paper presents an antenna design that includes a circular planar monopole microstrip antenna incorporating a metamaterial inspired T-slot structure and Complimentary Meander-Line (CML) unit cells. The T-slot is used to improve

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the bandwidth, reduce size, and increase the gain of the antenna.

## **Metamaterial Inspired Compact Antenna for UWB and GPS ...**

Epsilon-and-mu-near-zero (EMNZ) metamaterial structure inspired UHF antenna for nanosatellite has been proposed in this paper. The antenna

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consists of  $3 \times 2$ -unit cell array on the  
ground plane...

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