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Abstract: In this paper, a single band PIFA antenna designed and simulated in High Frequency Structural Simulator (HFSS) with metamaterial superstrate. The PIFA antenna resonates at a frequency of 2.4 GHz with radiating patch of quarter wavelength ($\lambda/4$) parameters consisting of length 26mm and width 30mm placed on top of a ground plane with half wavelength ($\lambda/2$) parameters at a height of 10mm.

Design of PIFA antenna with metamaterial superstrate at 2 ...

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DESIGN OF METAMATERIAL BASED ANTENNA USING UNIT CELLS

The proposed structure introduces the design concept of Substrate Integrated Waveguide (SIW) fed metamaterial loaded patch antenna to enhance the gain of the conventional printed patch antenna for ...

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Antenna for 5G Smartphone Application (Part I) - Duration: 35:29. (PDF) Pyramidal horn antenna design Hfss Metamaterial Antenna Design Guide Hfss Metamaterial Antenna Design Guide - backpacker.com.br The antenna was designed and simulated using design tool Ansoft HFSS. The return loss is the primary parameter in the analysis of an antenna.

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Microstrip Ring Resonator Design Guide in HFSS 15 Read Free Hfss Metamaterial Antenna Design Guide Hfss Metamaterial Antenna Design Guide If you ally infatuation such a referred hfss metamaterial antenna design guide book that will come up with the money for you worth, get the agreed best seller from us currently from several preferred authors ...

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Here, I want to make an array of metamaterial microstrip patch antennas for mobile communication to enhance bandwidth and gain. I plan to use HFSS tool for the simulation part.

What is the working principle and design procedures of ...

minimizing the dimensions of the antenna. Antenna design is carried out using the transmission line method. The proposed antenna is simulated by the HFSS software. The simulation results indicate that the proposed antenna can scan the space between the angles of -20° to 35° in the frequency range of 3.7 to 5.2 GHz, and the

Design and Simulation of a Microstrip Leaky-Wave Antenna ...

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Loop Antenna Design Using Hfss

Design of Cost-Effective Beam Steered Phased Array Antenna with Enhanced Gain using Metamaterial Lens Abstract: In this work, a cost-effective beam steered phased array antenna with the help of switched phase shifter with enhanced gain parameter, operating at 2.5 GHz frequency, has been designed and analyzed.

Design of Cost-Effective Beam Steered Phased Array Antenna ...

strate. We compared our design with the conventional microstrip patch antenna in point of bandwidth. We obtained bandwidth improvement by 800MHZ. Sim-ulation was obtained by using High Frequency Structure Simulation (HFSS) simulator. Keywords—Microstrip patch antenna, metamaterial, complementary split ring resonator, bandwidth. 1 Introduction

Bandwidth Enhancement of Microstrip Patch Antenna by Using ...

Fig.2. Split Ring Metamaterial loaded below the microstrip patch antenna simulated using HFSS-30.00 1.00 1.25 1.50 1.75 2.00 2.25 2.50 2.75 3.00. Freq [GHz] Fig.3. Simulated return loss plotted using HFSS for rectangular patch antenna with and without metamaterial. As seen in Fig. 3, the return loss is slightly increased to from

Design and Performance Analysis of Rectangular Microstrip ...

Metamaterial Superstrate Antenna is designed with eight different structures and its performances are analysed. This antenna obtained the maximum gain and directivity of 9.4 dB and 9.55 dB in double layer metamaterial superstrate antenna with modified slot size in uniform structure at the operating

Metamaterial Superstrate Antenna Design with Gain Enhancement

This chapter provides a design guide for a one-dimensional, dominant-mode leaky-wave antenna based on the left-handed metamaterial's unique dispersion characteristics. This chapter begins with a brief introduction on leaky-wave antennas and discusses the advantages of a left-handed metamaterial implementation over a conventional implementation of the antenna.

Left-Handed Metamaterial Design Guide - RF Globalnet

Modelling and simulating antenna 2 it is observed that it enhances the properties of antenna 1 with improved characteristics. Antenna 2 has radiation efficiency of 0.998, front to back ratio of 1.0049 and peak directivity is 1.17. Keywords: metamaterial, split ring resonator, coplanar wave guide (CPW), complementary split ring resonator. 1.

METAMATERIAL INSPIRED TRI-BAND ANTENNA WITH SRR AND ...

HFSS of a miniaturized PIFA antenna for the PCS band... small antennas, give clues and guidelines about efficient antenna miniaturization, and, finally, show Page 4/15. ... antenna). Bluetooth Antenna Design Guide - Step 1 A rule of thumb in PIFA design is that any method to

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This is how to design a Microstrip Ring Resonator in HFSS 15. If you have any inquiry, please email to vnemsolutions@vnemsolutions@gmail.com.

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