

A Compact Broadband Spiral Antenna Wei Fu

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A Compact, Broadband Spiral Antenna With Unidirectional Circularly Polarized Radiation Patterns. Abstract: A low-profile, compact spiral antenna with a broadband circularly polarized (CP) response is presented. The antenna is backed by a ground plane and has unidirectional radiation patterns over its entire frequency band of operation.

A Compact, Broadband Spiral Antenna With Unidirectional ...

As a member of frequency-independent antennas, a spiral antenna has salient features like ultra wide impedance bandwidth, radiating circular polarized EM wave and very wide radiation beam. It is straightforward to design a spiral antenna which works in free space over a 1:20

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bandwidth.

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A compact broadband spiral antenna @article{Fu2008ACB, title={A compact broadband spiral antenna}, author={W. Fu and E. Lopez and W. Rowe and K. Ghorbani}, journal={2008 Asia-Pacific Microwave Conference}, year={2008}, pages={1-4} }

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329-334, 1959 [2] T E A COMPACT DUAL-POLARIZED BROADBAND H.-L. Peng

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Abstract: A compact spiral antenna for broadband and circularly polarized operations is proposed. Size miniaturization is based on phase velocity reduction. Size reduction using antenna miniaturization techniques is considered and explored through the application of meandering lines and resistive loading.

Design of a compact broadband planar spiral antenna - IEEE ...

A compact broadband microstrip antenna for mounting to one side of a ground plane comprises a closed (usually circular) array of antenna elements positioned to one side of a substrate for spacing...

US5453752A - Compact broadband microstrip antenna - Google ...

Model A4460 Spiral Antenna. The Nurad model A4460 is an example of a spiral antenna that strikes an optimal balance between small size, broad bandwidth and radiation efficiency. As shown in Figure 2, this antenna is a compact cylindrical assembly with an integral balun and a single coaxial connector. This right-hand circularly-polarized antenna is 2 inches in diameter by 1.9 inches deep, operates over the 2 to 40 GHz frequency range with a nominal VSWR of less than 2, and provides high ...

Spiral Antennas for Broadband Applications

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This pattern has two equal radiation peaks, both broadside to the plane of the spiral antenna (which lies in the $z=0$ plane, or x-y plane). One peak is above the planar spiral antenna and the other is below. The Spiral Antenna has circular polarization over a wide beamwidth, often for angular regions as wide as π . This is a very broad beamwidth for circular polarization; this is one of the features that makes spiral antennas very useful.

Spiral Antenna - Antenna Theory

A compact circularly polarized (CP) spiral antenna with enhanced impedance and 3-dB axial ratio (AR) bandwidths that is fed by a tapered coax balun is presented.

A Compact, Broadband Spiral Antenna with Uni-Directional ...

ABSTRACT : A new compact dual-linearly polarized ultrawideband (UWB) antenna for VHF/UHF applications is proposed on this letter. The antenna is miniaturized thanks to inductive loading and lumped resistances.

Compact Dual-Linear Polarized Wideband Antenna for VHF/UHF ...

A Broadband and Compact Edge-fed 3-Arm Spiral Antenna @article{Muller2006ABA, title={A Broadband and Compact Edge-fed 3-Arm Spiral Antenna}, author={D. Muller and Kamal Sarabandi}, journal={2006 IEEE Antennas and Propagation Society International Symposium}, year={2006}, pages={3665-3668} }

A Broadband and Compact Edge-fed 3-Arm Spiral Antenna ...

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The optimal performance of both rectifiers are obtained using the nonlinear harmonic-balance simulations. The antenna–rectifier integration yields a compact rectenna with a high-efficiency performance over the intended bandwidth from 1.2 to 5 GHz for an input power of 9 dBm and terminal load resistance of 1 k Ω . The total measured RF-DC conversion efficiency is maintained above 30% across the entire frequency range with a peak value of 61% achieved at 1.2 GHz.

Enhanced Broadband RF Differential Rectifier Integrated ...

The RATTLE-1 antenna is a 14-turn, two-arm conical Archimedean spiral antenna backed by a half-sphere cavity. This particular configuration evolved from dimension restrictions and the performance requirements of broadband frequency coverage, directionality, and power handling.

2. Design Restrictions and Requirements

RATTLE-1 : A COMPACT, BROADBAND DIRECTIONAL UHF ...

A low-profile, compact spiral antenna ideally suited for handheld and vehicular applications. This lightweight antenna is rugged and weather resistant. It provides wide bandwidth, broad beam width, and high RF efficiency. The HSA-056A is the mid-power (25 W) version of the HSA-056 (5 W). Frequency: 500 – 8500 MHz: Application

Electronic Warfare – Jamming & Surveillance - PPM Systems

Broadband Spiral antenna, model number PSA-8026R/1050 This broadband antenna covers GSM900, GSM1800 and UMTS and can be used for wireless LAN 2.4/802.11, WiFi and

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surveillance applications. Circular polarisation mitigates the negative effects of multipath environments.

Three New Antennas - Broadband Spiral, Sector and Omni ...

In this work, a novel compact broadband rectenna is presented to harvest the ambient RF energy. A high-efficiency fractal slot antenna is proposed and investigated. A typical voltage doubler rectifier with a simple single stub matching network is designed for maximum power conversion of RF to DC.

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