

Microstrip Antennas Rd Springer

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Microstrip Antennas Rd Springer

The basic geometry of a microstrip patch antenna (MPA) consists of a metallic patch which is either printed on a grounded substrate or suspended above a ground plane. The antenna is usually fed either by a coaxial probe or a stripline.

Microstrip Patch Antennas | SpringerLink

A class of antennas that has gained considerable popularity in recent years is the microstrip antenna. There are many different varieties of microstrip antennas, but their common feature is that they basically consist of four parts:

Microstrip Antennas | SpringerLink

The microstrip antenna is another popular candidate for on-chip antennas. When this type of antenna is adopted for on-chip systems, two concerns should be considered. First, the typical microstrip patch is nearly a half-wavelength long, which is much larger than the requirement in the metal layer design rules.

On-Chip Antennas | Springer for Research & Development

Microstrip Patch Antennas: A Designer's Guide provides the reader with a current overview of where microstrip patch antenna technology is at, and useful information on how to design this form of radiator for their given application and scenario. The book describes the general properties and the many different forms of microstrip patch antennas, highlighting the advantages and disadvantages of ...

Microstrip Patch Antennas: A Designer's Guide - Springer

Ozkaya, U., Seyfi, L: Dimension optimization of microstrip patch antenna in X/Ku band via artificial neural network. In: World Conference on Technology, Innovation and Entrepreneurship, pp. 2520-2526 (2015) Google Scholar

Microstrip Patch Antenna: A Review | SpringerLink

This book focuses on performance enhancement of printed antennas using frequency selective surfaces (FSS) technology. The growing demand of stealth technology in strategic areas requires high-performa Frequency Selective Surfaces based High Performance Microstrip Antenna | Springer for Research & Development

Frequency Selective Surfaces based High ... - rd.springer.com

Abstract In this paper, a rectangular microstrip antenna has been designed. The design has been implemented with a defected ground surface (DGS) to obtain the desired gain and reflection coefficient at both the frequencies 2.45 and 3.75 GHz.

Design and Analysis of Slotted Microstrip Patch Antenna ...

In modern days, Microstrip patch antennas become more popular because of its fascinating features such as low cost, light weight, low profile planar configuration which can be effortlessly made conformal to host surface. In order to overcome the demerits of patch antenna like low gain, low efficiency, low directivity and narrow bandwidth, it is obligatory to implement patch antennas in array ...

Analysis and Design of Microstrip Patch Antenna for Radar ...

Each of the various antenna types scalable to millimeter-wave dimensions is considered individually, with coverage of leaky-wave and surface-wave antennas, printed antennas, integrated antennas, and reflector and lens systems.

Millimeter-Wave Antennas: Configurations and ... - Springer

D. Sánchez-Escuderos, M. Ferrando-Bataller, A. Berenguer, J.I. Herranz, Circularly-polarized periodic leaky-wave antenna at millimeter-wave frequencies, in Antennas and Propagation Society International Symposium, 2013 pp. 158-159 Google Scholar

Leaky-Wave Antennas | Springer for Research & Development

The numerical models of these antennas are presented and the analytical results are supported, using commercial simulators. The multilayer substrate microstrip transmission line at terahertz frequency is also explored and a method to obtain the various parameters of this interconnect at high frequency is described.

Terahertz Planar Antennas for Next Generation ... - Springer

The results show the possibility of using a circular patch antenna as the excitation source with unidimensionnel electromagnetic band gap instead of a square patch antenna according to the same resonance frequency and with a reflection coefficient equal to -17.73dB and a directivity of 21.2dB.

Circular Patch Antenna with 1D-EBG for X-Band - Springer

A novel circular polarization (CP) design of a single-feed Hexagonal shaped microstrip antenna for enhanced antenna parameters is presented. The CP design is obtained by placing three isosceles triangular defects at proper locations in the hexagonal radiating patch as well as in the square ground plane. By adjusting one of the side lengths of the triangular defect, slightly longer or shorter ...

Circular Polarization in Defected Hexagonal Shaped ...

The microstrip antenna is a relatively modern invention. It was invented to allow convenient integration of an antenna and other driving circuitry of a communication system on a common printed-circuit board or a semiconductor chip (Carver and Mink, 1981; Pozar, 1992).

Microstrip Antenna - an overview | ScienceDirect Topics

In telecommunication, a microstrip antenna usually means an antenna fabricated using photolithographic techniques on a printed circuit board. It is a kind of internal antenna. They are mostly used at microwave frequencies. An individual microstrip antenna consists of a patch of metal foil of various shapes on the surface of a PCB, with a metal foil ground plane on the other side of the board. Most microstrip antennas consist of multiple patches in a two-dimensional array. The antenna is usually

Microstrip antenna - Wikipedia

The antenna is designed on a low-cost FR-4 substrate with $\epsilon_r = 4.3$ and thickness of 9.6 μm . The microstrip feed line has a width of 19 μm to get impedance of 50 ohm and good impedance matching.

High efficiency miniaturized microstrip patch antenna for ...

Heart shaped reconfigurable band notched UWB microstrip line fed monopole antenna using two mushrooms like electromagnetic band gaps (EBGs) loaded by two varactor diodes has been developed, examined and fabricated. The effect of EBG dimensions, on the notch frequency, was first examined. A notched frequency of 5.3 GHz is obtained when two square EBGs with rectangular slits are used with length ...

Heart shaped reconfigurable band ... - link.springer.com

This book comprises select proceedings of the international conference ETAEERE 2020, covers the latest research in the areas of electronics, communication and computing and includes different approaches and techniques for specific applications using particle swarm optimization

Advances in Electronics, Communication and ... - springer.com

About. Currently working as Assistant Professor in ECE Deptt. in Guru Tegh Bahadur Institute of Technology, Delhi,INDIA .I have done my PhD in "Design and Analysis of planar antennas using metamaterials at high frequencies including THz" from Delhi technological University,Delhi,INDIA and received 'Outstanding PhD Thesis' award.I have been gold medalist in my Masters in microwave electronics ...

Parul Dawar - Assistant professor - Guru Tegh Bahadur ...

Springer Singapore August 26, 2017. ... Choice of suitable substrate material is essential while configuring the square ring microstrip patch antenna, since dielectric constant of a substrate is a basic parameter over regulating return loss, gain, bandwidth, voltage standing wave ratio (VSWR), and effectiveness of radiation pattern. ...

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