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Communication. Lte

B.Mazumdar. α ,
U.Chakraborty . σ ,

A.Bhowmik. ρ ,
S.K.Chowdhury . ω &

A.K.Bhattacharjee \yen

Abstract- A single feed compact square microstrip antenna is proposed in this paper. Two L slits are introduced on the right edge of the patch to study the effect of the slit on radiation

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A Compact Microstrip Patch Antenna For Wide Applications

The microstrip patch antenna consists of a metallic patch on one side of a dielectric substrate. The value of the relative permeability (μ_r) depends on the materials which can be copper, silver, gold, aluminium. A substrate FR4 epoxy with a dielectric constant in

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the range $2.2 \leq$

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A Compact Microstrip-Fed Patch Antenna With Enhanced Bandwidth and Harmonic Suppression. Abstract: A single-layer microstrip-fed patch antenna with capabilities of both bandwidth enhancement and

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harmonic suppression is proposed. For this purpose, a pair of $\lambda/4$ microstrip-line

resonators is introduced and coupled in proximity to a rectangular patch. The wideband property can be obtained by making effective use of the two resonances introduced by the radiating patch and nonradiating $\lambda/4$...

A Compact Microstrip-Fed Patch

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Antenna With Enhanced ...

A novel square microstrip patch antenna with a single-patch and single-layer structure is demonstrated. By incorporating an air-filled substrate with a thickness of around 0.08λ and ...

(PDF) A compact and broadband microstrip patch

Download Free A Compact Microstrip Patch **antenna**

In this paper, a Tri-band microstrip-line-fed low profile microstrip patch antenna is proposed for future multi-band 5 G wireless communication applications. The proposed antenna is printed on a compact Rogers RT5880 substrate of dimensions $20 \times 16.5 \times 0.508$ mm 3 with relative

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permittivity, ϵ_r of 2.2 and loss tangent, $\tan \delta$ of 0.0009. To improve return loss and bandwidth of the proposed antenna, a partial ground plane technique is employed.

Design of a Compact High Gain Microstrip Patch Antenna for ...

Abstract In this paper, a Tri-band microstrip-line-fed low profile microstrip patch antenna is proposed

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for future multi-band 5
G wireless
communication
applications. The
proposed antenna is
printed on a compact
Rogers RT5880
substrate of
dimensions
 $20 \times 16.5 \times 0.508$ mm³
with relative
permittivity, ϵ_r of 2.2
and loss tangent, $\tan \delta$
of 0.0009.

Design of a Compact High Gain Microstrip

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Microstrip Patch **Patch Antenna for ...**

IET Digital Library: New compact microstrip antenna. A new microstrip antenna geometry with considerable reduction in size, and with similar radiation characteristics to those of an equivalent rectangular patch antenna is proposed. A relationship has been suggested for finding out the resonant frequency of the new

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geometry, and its validity has been established by the experimental results.

IET Digital Library: New compact microstrip antenna

A compact monopolar patch antenna is presented in this paper. The antenna has a wide bandwidth and a monopole-like radiation pattern. To reduce the whole size of the antenna, a

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substrate with high dielectric constant is adopted. Besides, three types of shorting pins and a triangle slot are added to the patch to widen the impedance bandwidth.

A wideband microstrip monopolar patch antenna with compact ...

The salt and sugar detection system using a compact microstrip

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antenna is based upon
the variation of
antenna parameters in
the solutions of
different
concentrations of salt
and sugar. The
defected...

Salt and sugar detection system using a compact microstrip ...

integrated circuits
(MICs), the microstrip
patch antenna is very
well suited for

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applications such as
cellular phones,
pagers, missile
systems, and satellite

communications
systems. A compact
microstrip patch
antenna is designed for
use in a cellular phone
at 1.9 GHz. The results
obtained

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the Microstrip patch
antenna is ZelandInc's
IE3D. IE3D is a full-

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wave electromagnetic simulator based on the method of moments. It analyzes 3D and multilayer structures of general shapes. It has been widely used in the design of MICs, RFICs, patch antennas, wire antennas, and other RF/wireless antennas.

A Compact and Broadband Microstrip Patch Antenna with ...

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Compact Circular
Microstrip Antenna
with Split Ring
Resonators A circular
microstrip antenna
with CSRRs is presen
ted in this section. The
antenna is printed on
dielectric substrate
with dielectric constant
of 2.2, loss tangent of
0.002 and 1.6 mm
thick.

New Compact Wearable Metamaterials

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Circular Patch

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The article investigates the performance of

planar and compact CPW-fed microstrip patch antenna that

offers 10 dB

impedance bandwidth over the wide

frequency range

between 2.59 and 7.61

GHz. The parametric

analysis of various

design variables is

included to acquire the

final design of

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proposed antenna. The prototype exemplary of designed antenna is experimentally tested to obtain the return loss, VSWR, radiation response and gain characteristics.

A Compact CPW-Fed Planar Stacked Circle Patch Antenna for ...

Abstract: This article presents a compact absorptive filtering patch antenna. It

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consists of a filtering patch antenna and a bandstop filter (BSF), with their transfer functions being complementary to each other. A slot is fabricated in each of the patch and ground, giving a total of two radiation nulls for the lower bandedge.

**Compact Absorptive
Filtering Patch
Antenna - IEEE
Journals ...**

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INTRODUCTION
Compact microstrip

antennas have received much attention due to increasing application of small antennas for personal communication equipments [1{5].

Shorted patch antennas have been reported to overcome the size constraints for a variety of communication link.

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COMPACT SHORTED MICROSTRIP PATCH ANTENNA FOR DUAL BAND ...

In order to reduce the mutual coupling effects between antenna array elements, a compact subdivided microstrip square patch, consisting of four corner pads alternating with four high impedance strips attached to a central pad, is used as array element. The cutting of

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slits on the patch lengthens the current path upon the patch surface.

A Compact Subdivided Microstrip Square Patch Array with ...

As the $\lambda / 4$ resonator is embedded in the microstrip patch, the antenna size is not enlarged. Furthermore, the proposed compact antenna has good performance such as

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low cross polarization. Finally, the proposed compact antenna is manufactured and measured.

A Novel Compact Microstrip Antenna with an Embedded $\lambda/4$...

The antenna has compact size of 3045 mm² with notch band of 1.4 GHz (3.84-5.25 GHz), covering the entire WiMAX (3.05-3.84 GHz) and

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WLAN (5.24-7.54 GHz).
Tri-band metamaterial
inspired open split ring
resonator antenna,
covering 2.4/5.2/5.8
GHz (Wireless LAN),
5.5 GHz (WiMAX) and
7.4 GHz (C-band)
applications was
presented in.

Design of Compact Dual-band and Tri- band Microstrip Patch ...

The most commonly
employed microstrip

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antenna is a rectangular patch which looks like a truncated microstrip transmission line. It is approximately of one-half wavelength long. When air is used as the dielectric substrate, the length of the rectangular microstrip antenna is approximately one-half of a free-space wavelength.

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