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A transmission line model
for arrays of ... -
SpringerLink

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In order to overcome the narrow-bandwidth of the patch antenna, one kind of configuration which can widen the bandwidth significantly is discussed in this letter. Analyzed by the equivalent-circuits

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method and simulated by HFSS, a rule derived from simulated results that can aid to design the microstrip antennas is found. Finally, the structure parameters are optimized out, which reaches 44.67 ...

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Antenna Handbook - Theory,
Applications, and Design -
Springer

An analysis of microstrip
line fed antennas has been
presented theoretically
using circuit theory

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concept. The theoretical investigations of F-shape antenna parameters such as return loss, VSWR, gain and efficiency have been calculated. It is found that antenna resonate at 2.4 and 5.2 GHz for lower and upper

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resonance frequencies
respectively.

A patch antenna for HIPERLAN
- Springer

The basic geometry of a
microstrip patch antenna
(MPA) consists of a metallic

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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. In the coaxial case, the center conductor

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is directly connected ...

Small Monopole Antenna for
IEEE 802.11a ... -

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A patch antenna suited for
indoor HIPERLAN is
presented. The antenna

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operates in TM_{02} mode and its radiation pattern is omnidirectional in azimuth and has a null in the normal direction. An experimental prototype has been designed and tested. A 6.1% bandwidth of $VSWR \leq 2$ and 4.2 dB antenna

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gain were measured at 5 GHz
band.

DESIGN OF RECTANGULAR
MICROSTRIP PATCH ANTENNA
USING ...

A design of a circular
polarized microstrip stack

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patch antenna is presented. In this paper, a corner truncation at opposite side of square patch is printed on two FR-4 substrates, one is for stack and another for radiating patch, to achieve circular polarization; the

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rectangular slot is introduced at the centre in diagonal with axis to increase bandwidth and reduce size.

Input impedance of microstrip antenna ... -

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Lee KF, Dahele JS (1989)

Characteristics of
microstrip patch antennas
and some methods of
improving frequency agility
and bandwidth. In: James JR,
Hall PS (eds) Handbook of

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microstrip antennas.

Peregrinus, London, pp
111-214 CrossRef Google
Scholar

Analysis of F-shape
microstrip line fed dualband
antenna ...

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Provide an introduction to microstrip antennas. Provide a physical and mathematical basis for understanding how microstrip antennas work. Provide a physical understanding of the basic physical properties of

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microstrip antennas. Provide
an overview of some of the
recent advances and trends
in

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springerprofessional.de
Volume II covers antenna

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theory and design,
describing a number of
antenna types, including
receiving, wire and loop,
horn, frequency-independent,
microstrip, refelector, and
lens antennas. This section
also includes arrays,

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providing array theory as well as exploring waveguide-fed slot arrays,

Microstrip Antennas - Home - Springer

Microstrip Patch Antennas: A Designer's Guide provides

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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

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general properties and the

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Springer

A class of antennas that has
gained considerable
popularity in recent years

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is the microstrip antenna. There are many different varieties of microstrip antennas, but their common feature is that they basically consist of four parts:

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Antenna Handbook - Antenna theory | Y.T. Lo | Springer
Techniques based on the method of modal expansions, the Rayleigh-Stevenson expansion in inverse powers of the wavelength, and also the method of moments

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solution of integral equations are essentially restricted to the analysis of electromagnetic radiating structures which are small in terms of the

A novel wide-band circular

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patch antenna - Springer
Design of a microstrip-fed
monopole antenna with a
rectangular slit ground and
a rectangular projection
strip for dual-band WLAN
operations. Microwave and
Optical Technology Letters ,

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54 , 1039–1044.

Capacitive Coupled Truncated
Corner Microstrip Stack
Patch ...

The microstrip antenna is a
low-cost and low-profile
antenna which is modeled to

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transmit and receive an
electromagnetic signal. The
proposed antenna consists of
a circulated Psi-shaped
patch and...

Microstrip Patch Antennas -
Home - Springer

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This study proposes a new design of dual linearly polarized microstrip (patch) antenna which uses a set of slits and slots to effectively reduce the area of patch compared with the conventional, dual linearly

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polarized square patch. The proposed antenna was simulated by using EM simulator IE3D. The antenna is designed on inexpensive FR4 substrate.

Introduction to Microstrip

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Antennas - University of
Houston

He obtained M.Tech. Degree
in 2000 and Ph. D. in 2004
from Department of
Electrical Engineering, I.
I. T. Bombay. His thesis
work during masters and

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doctoral, was on Compact broadband and dual band microstrip antennas. He worked as Research Assistant in Department of Electrical Engineering, IIT Bombay.

Frequency Selective Surfaces

Page 35/47

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based High ... - Springer
Design of rectangular
microstrip patch antenna
(RMPA) using stepped cut at
four corners for
broadband/multiband
application is presented in
this paper. Stepped cut at

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four corner technique is used in order to increase the bandwidth and gain of the antenna. Design and simulation of Modified rectangular microstrip patch antenna are done

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UWB Microstrip Antenna with
Inverted Pie Shaped ... -
Springer

A very efficient
transmission line model for
the analysis of arrays of
rectangular microstrip
antennas is presented. The

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structure of the model is discussed, and its validity is proved. This is done for the isolated microstrip antenna as well as for the coupling between antennas. Then follows a discussion of the numerical efficiency.

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Reduce-Size Dual-Polarized
Microstrip Antenna |
Springer ...

The designed antenna is
showing band notch property
at 7 GHz (6.4–7.5 GHz for
satellite communication) as

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this band interfere with the UWB. The main advantage of this antenna is that the designed structure is very simple and the cost for making this antenna is also low.

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Proceedings of International
Conference on ... - Springer
In this endeavor, the EM
design of microstrip patch
antennas (MPA) loaded with
FSS-based (i) high impedance
surface (HIS) ground plane,
and (ii) the superstrates

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are discussed in detail. The EM analysis of proposed FSS-based antenna structures have been carried out using transmission line analogy, in combination with the reciprocity theorem.

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**Microstrip Patch Antennas: A
Designer's Guide - Springer**

A method has been devised to
analyze multilayer
electrically thick circular
microstrip antenna excited
by a probe. The current on
the probe is taken to be

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uniform. This method was verified by analysis and experiment of an electrically thick circular microstrip antenna with an air gap. Based on the free space electric dyadic Green's function, the field

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expression of an horizontal
electric ...

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