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Y.T. Lo |

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Techniques based
on the method of
modal

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expansions, the
Rayleigh-

Stevenson

expansion in

inverse powers

of the

wavelength, and

also the method

of moments

solution of

integral

equations are

essentially

restricted to

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the analysis of
electromagnetic
radiating
structures which
are small in
terms of the

**DESIGN OF
RECTANGULAR
MICROSTRIP PATCH
ANTENNA USING**

...

A design of a
circular

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polarized
microstrip stack
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,

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

Microstrip Patch Antennas: A

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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 uniform.

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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 expression

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of an horizontal
electric ...

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

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Springer

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

Reduce-Size Dual-Polarized

Page 14/47

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**Microstrip
Antenna |**

Springer ...

The designed antenna is showing band notch property at 7 GHz (6.4–7.5 GHz for satellite communication) as this band interfere with the UWB. The

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main advantage of this antenna is that the designed structure is very simple and the cost for making this antenna is also low.

Frequency

Selective

Surfaces based

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**High ... -
Springer**

Design of
rectangular
microstrip patch
antenna (RMPA)
using stepped
cut at four
corners for broa
dband/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

Introduction to

Page 18/47

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**Microstrip
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

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

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

...

Provide an
introduction to
microstrip
antennas.

Provide a
physical and
mathematical
basis for
understanding

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how microstrip
antennas work.

Provide a
physical
understanding of
the basic
physical
properties of
microstrip
antennas.

Provide an
overview of some
of the recent
advances and

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trends in
Springer

**Microstrip
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Microstrip Patch
Antennas: A
Designer's Guide
provides the
reader with a
current overview
of where
microstrip patch
antenna

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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

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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,

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and (ii) the superstrates 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

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theorem.
Springer

**Capacitive
Coupled
Truncated Corner
Microstrip Stack
Patch ...**

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

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

**A novel wide-
band circular
patch antenna -
Springer**

Design of a

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Antennas, R. D.

Springer

microstrip-fed
monopole antenna
with a
rectangular slit
ground and a
rectangular
projection strip
for dual-band
WLAN operations.
Microwave and
Optical
Technology
Letters , 54 ,
1039–1044.

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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

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presented. The 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

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discussion of
the numerical
efficiency.

**Antenna Handbook
- Theory,
Applications,
and Design -
Springer**

An analysis of
microstrip line
fed antennas has
been presented
theoretically

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using circuit
theory 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

Read Online
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Springer
GHz for lower
and upper
resonance
frequencies
respectively.

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

In order to
overcome the
narrow-bandwidth
of the patch

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Springer
antenna, one
kind of

configuration
which can widen
the bandwidth
significantly is
discussed in
this letter.

Analyzed by the
equivalent-
circuits method
and simulated by
HFSS, a rule
derived from

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Microstrip

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simulated
Springer results that can
aid to design
the microstrip
antennas is
found. Finally,
the structure
parameters are
optimized out,
which reaches
44.67 ...

Small Monopole

Antenna for IEEE

Page 36/47

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802.11a ... -

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A patch antenna suited for indoor HIPERLAN is presented.

The antenna operates in TM₀₂ mode and its radiation pattern is omnidirectional in azimuth and has a null in

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the normal direction. An experimental prototype has been designed and tested. A 6.1% bandwidth of $VSWR \leq 2$ and 4.2 dB antenna gain were measured at 5 GHz band.

Input impedance

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of microstrip

Springer ... -

rd.springer.com

Lee KF, Dahele

JS (1989)

Characteristics
of microstrip
patch antennas
and some methods
of improving
frequency

agility and

bandwidth. In:

James JR, Hall

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PS (eds)

Handbook of
microstrip
antennas.

Peregrinus,
London, pp
111–214 CrossRef
Google Scholar

**Microstrip Patch
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gerprofessional.
de**

Volume II covers

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

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

**A patch antenna
for HIPERLAN -
Springer**

The basic
geometry of a
microstrip patch

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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. In

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the coaxial
case, the center
conductor is
directly
connected ...

**Microstrip Patch
Antennas - Home
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This study
proposes a new
design of dual
linearly
polarized

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microstrip
(patch) antenna
which uses a set
of slits and
slots to
effectively
reduce the area
of patch
compared with
the
conventional,
dual linearly
polarized square
patch. The

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Springer
proposed antenna
was simulated by

using EM
simulator IE3D.

The antenna is
designed on
inexpensive FR4
substrate.

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84dd0415aa056a37](https://doi.org/10.1007/978-1-4939-84dd0)

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