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Arjun Kumar**

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Microstrip Filter Design With Defected

In this case, an improvement of microstrip filter design is achieved using Defected Ground Structures (DGSs). MATLAB and full wave electromagnetic

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simulators are used to model the proposed filters....

(PDF) Design of Elliptic-Function Microstrip Filters with ...

A design of the low-pass filter using the novel microstrip defected ground structure Abstract: A new defected ground structure (DGS) for the microstrip line is proposed in this paper.

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The proposed DGS unit structure can provide the bandgap characteristic in some frequency bands with only one or more unit lattices.

A design of the low-pass filter using the novel microstrip ...

Abstract. In this paper, various microstrip filters, such as bandpass (narrow/wideband) filters, dual band

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bandpass filter and lowpass filters, are designed with new metal strips loaded defected ground structure (DGS). In this proposed DGS, metal strips are introduced in connecting slot of dumbbell shaped DGS (DB-DGS).

Design and realization of microstrip filters with new ...

This paper presents a

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close but a beginner's perspective and a comprehensive review of microstrip filters with defected ground structure (DGS). The concept of DGS is inspired by photonic/electromagnetic bandgap structures (EBG/PBG) and metamaterials that are employed in microwave components to achieve a variety of performance

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enhancement features.

Defected Ground

Structure By Arjun

Kumar

Microstrip filter with

defected ground

structure: a close ...

defected ground structure (D GS) ... We present the design of a compact microstrip lowpass filter with a wide stopband which is up to ten times the cutoff frequency. The filter is based on a ...

(PDF) Novel
Compact Microstrip

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Bandpass Filter

Design ...

In this thesis, ultra-wideband (UWB) microwave filters and design challenges are studied and a microstrip, UWB filter prototype design is presented. The UWB bandpass filter operating in the 3.6 GHz to 10.6 GHz frequency band is targeted to comply with the FCC spectral mask for UWB systems. The prototype filter is

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**Design of a
Microstrip Bandpass
Filter for 3.1-10.6
GHz ...**

In this paper a study of some microwave microstrip band-pass filters using defected ground structures (DGS) is presented. It is shown that the presence of a slot in the ground plane can substantially enhance the electric coupling, or

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the electric part of a mixed coupling, between two adjacent microwave resonators.

Structure By Arjun Kumar

**DESIGN OF
MICROWAVE
MICROSTRIP
BANDPASS FILTERS
USING ...**

Etched slots or defects on the ground plane of microstrip circuits are referred to as Defected Ground Structure.

Single or multiple defects on the ground

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plane may be
considered as DGS.
Initially DGS was
reported for filters
underneath the
microstrip line.

**Defected Ground
Structure:
Fundamentals,
Analysis, and ...**

High Frequency Design
DEFECTED GROUND
simply by adding
another DGS ele-ment
resonant at the second
harmon-ic frequency.

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The rejection of this resonant notch will greatly reduce the filter's unwanted response.

The example in [2] includes this scenario, adding a DGS at the center of the filter. Its design frequency of 5.9 GHz places it in the offending

An Introduction to Defected Ground Structures in ...

Moreover, the microstrip LPF design

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using conventional methods requires even larger size to achieve a sharp cut-off. Several research works have been reported in the literature to reduce the size of microstrip lowpass filters [119-125]. Such as a microstrip lowpass filter using the slow-wave resonator has been realized by C. Jianxin et.

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FILTER DESIGN -

Shodhganga

Design of Compact RF
Filters with Narrow

Band-Pass and Wide
StopBand by Open-
Stub & T-shaped

Microstrip Resonators
and Defected Ground
Structure (DGS)

**[PDF] Design of
Compact RF Filters
with Narrow Band-
Pass ...**

A simple L-shaped
defected microstrip

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structure (DMS) is added to improve the upper rejection band. DMS is realized by etching slots or gaps in the microstrip structure. It has similar properties as that of defected ground structure (DGS) but does not have any leakage through ground. A simple LDMS behaves like a band notch structure.

High frequency

Page 18/27

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**rejection using L
shaped defected ...**

electronics Article
Triple Notches

Bandstop Microstrip
Filter Based on

Archimedean Spiral
Electromagnetic
Bandgap Structure

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Triple Notches

Bandstop Microstrip

Filter Based on ...

components of

integrated circuit

system, the defected

microstrip structure

(DMS) appears. Since

the DMS is proposed, it

gets extensive

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application especially in the filter designing. The DMS is used to design stopband filter [17-21], bandpass filter [22], suppress spurious response [23,24], notch band [25,26], UWB bandpass filter [27].

A Novel Miniaturized UWB Bandpass Filter Basing on E ...

: A design of the low-pass filter using the novel microstrip

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defected ground
structure. IEEE
Transactions on
Microwave Theory and
Techniques, 49 (1)
(2001), 86 - 93.

**An improved
stopband and sharp
roll off microstrip
low ...**

overview of defected
ground structure (DGS)
and the recent
developments in
distributed circuit
design that offers

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improved performance in many filter and antenna applications.

Key Words: Defected Ground Structure, Microstrip Antennas. 1.

INTRODUCTION The microstrip technology consists of a microstrip

A Review of Defected Ground Structure for Microstrip Antennas

A microstrip patch filter antenna inspired by defected ground

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Kumar

structure (DGS) is presented in this article. It uses modified split ring resonator and capacitance loaded strip as a radiating element. The presented structure is incorporated with a pair of double U-shaped DGS (DU-DGS) to obtain filtering characteristics.

Implementation of defected ground structure for

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Microstrip Filter Design With **microstrip ...**

Lowpass filters can be designed and optimized by means of a new approach, based on the use of logarithmic series analysis and etched cross defected ground structure (DGS) topologies. 1, 2 A simple J-inverter and coupling matrix enable the transformation of a lowpass filter (LPF) to a bandpass filter (BPF) with the same

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structure and
conditions. Defected Ground
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**Design High-
Frequency Filters
with Cross DGS
Circuit ...**

resonators are studied as defected ground structure for designing the microstrip filters [7-15]. All the CSRR-DGS structures have been simulated and compared with their frequency characteristics and also

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compared in terms of bandwidth, sensitivity and effective inductance and effective capacitance .

2. Comparison of different shapes of CSRR-DGS (a)

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