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Design of tri-band (10, 28 \u0026 38 GHz) microstrip patch antenna

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Microstrip Patch Antenna in CST Compact Wideband Microstrip Patch Antenna

To reduce the size of MPAA, a compact wideband aperture coupled microstrip patch antenna (MPA) is utilized as array element. Size reduction of the array element is performed through incorporating an interdigital capacitor (IDC) in the patch and a metamaterial (MTM) unit cell close to slot in the ground plane of the antenna.

Performance enhancement of a compact wideband patch ...

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To feed this antenna, microstrip line feed is used. This antenna is implemented for wide bandwidth (4.8-11.6) GHz, and has three resonant frequencies at 5.5GHz, 8.3GHz and 10.7GHz with impedance...

(PDF) New Compact Wideband Microstrip Antenna for Wireless ...

Abstract In this paper, a novel wideband circularly polarized (CP) millimeter wave (mmWave) microstrip antenna is presented. The proposed antenna consists of a central patch and a microstrip line radiator. The CP radiation is achieved by loading a rectangular slot on the ground plane.

Compact Wideband Circularly Polarized Antenna with ...

In this study, a compact crescent shaped microstrip patch antenna is proposed for super wideband (SWB) applications. The antenna consists of a rectangular, slotted partial ground plane and a crescent shape radiating patch to cover wider frequency band than the ultrawideband. The proposed antenna is fabricated on an FR4 substrate and is fed with a 50 microstrip feed line. The substrate has ...

Compact microstrip patch antenna proclaiming super ...

Corpus ID: 31498720. A wideband microstrip monopolar patch antenna with compact size
@article{Wang2015AWM, title={A wideband microstrip monopolar patch antenna with compact size}, author={K. Wang and Hang Wong and J. Xiang}, journal={2015 International Symposium on Antennas and Propagation (ISAP)}, year={2015}, pages={1-2} }

A wideband microstrip monopolar patch antenna with compact ...

In this study, a simple and compact ultra-wideband (UWB) patch antenna with rectangular slot is

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presented. The fabricated antenna consists of a rectangular patch tapered from a microstrip feeding...

(PDF) A Compact Microstrip Antenna for Ultra Wideband ...

CONCLUSION A new reconfigurable compact microstrip antenna of operating frequencies in the range of 2 – 5GHz with return loss less than – 9.54dB is presented. Two switches are integrated into the slots of the conventional rectangular patch antenna with parasitic and slots in order to enhance and control the frequency bands.

MULTI-WIDEBAND COMPACT MICROSTRIP PATCH E. E. M. Khaled ...

Compact Notch Loaded Microstrip Patch Antenna for Wide Band Application , , , Ashish Singh* *
University of Allahabad* Allahabad, India Abstract – In this paper, compact notch loaded microstrip antenna is analyzed using Zeland IE3D simulator and circuit theory concept. Analysis on varying thickness, dielectric constant, length and width of the notch has been reported. The bandwidth obtained ...

Compact Notch Loaded Microstrip Patch Antenna for Wide ...

Compact Wideband UHF Patch Antenna on a Reactive Impedance Substrate Kamal Sarabandi, Fellow, IEEE, Amelia M. Buerkle, ... 420-450 MHz. A microstrip patch antenna is selected as the elementary radiating structure because it has a low profile and is simple to fabricate. Compact size and enhanced bandwidth are simultaneously achieved through the use of a Reactive Impedance Surface (RIS) in place ...

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Compact Wideband UHF Patch Antenna on a Reactive Impedance ...

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 harmonic suppression is proposed.

A Compact Microstrip-Fed Patch Antenna With Enhanced ...

antenna (PIFA) and microstrip (patch) antenna have been presented in various works to eliminate the use of spacer. When attaching these antennas on the surface of metal, the metal surface would act as an extension of the antenna

A Compact Wideband Patch Antenna for Ultra High Frequency ...

A Compact Microstrip Antenna for Ultra Wideband Applications Baskaran Kasi Department of Electrical and Electronics Engineering Kuala Lumpur Infrastructure University College Kajang, Selangor 43000, Malaysia E-mail: Lee Chia Ping Centre for RF and Microwave Engineering Department of Electronics and Communication Engineering Universiti Tenaga Nasional, Kajang, Selangor 43000 ...

A Compact Microstrip Antenna for Ultra Wideband - MAFIADOC.COM

Abstract: As it is well known, microstrip patch antennas are commonly used, because they are compact and it is easy to achieve a unidirectional radiation pattern with circular polarization. However, the bandwidth of patch antennas is quite narrow, which limits their use in ultrawideband (UWB) applications.

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A Design of Compact Ultrawideband Circularly Polarized ...

A compact microstrip antenna for ultra wideband applications B. Kasi, Lee Chia Ping, Chandan Kumar Chakrabarty In this study, a simple and compact ultra-wideband (UWB) patch antenna with rectangular slot is presented. The fabricated antenna consists of a rectangular patch tapered from a microstrip feeding structure and a truncated ground plane.

A compact microstrip antenna for ultra wideband ...

A compact single antenna providing wide band coverage is highly demanded in recent times. In this paper a compact microstrip antenna with elliptical shape patch is designed and analyzed for its radiation characteristics. The proposed antenna is excited with microstrip line on one of the corners of the elliptical patch.

Design and Analysis of Compact Wideband Elliptical Patch ...

Progress In Electromagnetics Research C, Vol. 78, 93 – 104, 2017 A Circularly-Polarized Compact Wideband Patch Antenna Loaded by Metamaterial Structures Mojtaba Simruni*and Shahrokh Jam Abstract—In this paper a compact wideband aperture coupled microstrip patch antenna (MPA) with impedance bandwidth of 26.3% is designed.

A Circularly-Polarized Compact Wideband Patch Antenna ...

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

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parametric analysis of various design variables is included to acquire the final design of proposed antenna.

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

Gain enhancement over a wideband in CPW-fed compact circular patch antenna Volume 6, Issue 5
Kirti Vyas (a1) (a2) , Garima Sanyal (a2) , Arun Kumar Sharma (a2) and Pramod Kumar Singhal (a3)

Gain enhancement over a wideband in CPW-fed compact ...

A compact, dual wide-band circularly polarized, modified square ring slot antenna for C and Ku band applications. International Journal of Microwave and Wireless Technologies, p. 1. CrossRef; Google Scholar; Tiwari, Rakesh N. Singh, Prabhakar and Kumar Kanaujia, Binod 2018. Bandwidth enhancement using modified L-probe fed slotted patch antenna for WLAN and UMTS applications. International ...

Wideband and compact slot loaded annular ring microstrip ...

Microstrip line fed slot antenna is proposed for use in space craft, satellite and mobile applications with improved bandwidth characteristics to supp...

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