A novel method for improving **antipodal Vivaldi antenna** performance

IT Nassar, TM Weller - IEEE Transactions on Antennas and …, 2015 - ieeexplore.ieee.org

… width of the **antipodal Vivaldi antenna** structure is presented. The method is based on introducing a parasitic elliptical patch in the flare aperture to enhance the field coupling between the arms and produce stronger radiation in the endfire direction. This approach improves the …

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A compact **antipodal Vivaldi antenna** for UWB applications

R Natarajan, JV George… - IEEE Antennas and …, 2015 - ieeexplore.ieee.org

… Several modifications have been carried out on the basic structure, resulting in **antipodal Vivaldi antenna** with two radiating fins on either side of the substrate and balanced **antipodal Vivaldi antenna** (BAVA) with three layers of metallization. Variety of antipodal structures are …

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Antipodal Vivaldi antenna with improved radiation characteristics for civil engineering applications

M Moosazadeh, S Kharkovsky… - IET Microwaves …, 2017 - ieeexplore.ieee.org

… Abstract: An ultra-wideband elliptically tapered **antipodal Vivaldi antenna** designed for civil engineering applications is presented. It is based on design of a conventional **antipodal Vivaldi antenna** (CAVA) which impedance bandwidth is limited at low end of frequency band. To …

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A survey of performance enhancement techniques of **antipodal Vivaldi antenna**

AS Dixit, S Kumar - IEEE Access, 2020 - ieeexplore.ieee.org

… Many different antenna designs have been proposed by the researchers but, **Antipodal Vivaldi Antenna** (AVA) has drawn the attention of most of the researchers because of its high gain, wide bandwidth, less radiation loss, and stable radiation pattern. Different methods are …

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Compact **antipodal Vivaldi antenna** for UWB applications

GK Pandey, H Verma, MK Meshram - Electronics Letters, 2015 - Wiley Online Library

A novel compact end-fire **antipodal Vivaldi antenna** is proposed for ultra-wideband (UWB) applications such as in radars, microwave imaging and in high data rate wireless systems. To make the antenna compact, a bending feed line structure and sinusoidal modulated …

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A palm tree **antipodal Vivaldi antenna** with exponential slot edge for improved radiation pattern

AM De Oliveira, MB Perotoni, ST Kofuji… - IEEE Antennas and …, 2015 - ieeexplore.ieee.org

… Mirtaheri, and MS Abrishamian, “Improvement of time and frequency domain performance of **antipodal Vivaldi antenna** using multi-objective … Hu, and FS Zhang, “A miniaturized **antipodal Vivaldi antenna** with improved radiation characteristics,” IEEE Antennas Wireless Propag. …

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Modified **antipodal Vivaldi antenna** for ultra-wideband communications

R Natarajan, JV George… - IET Microwaves …, 2016 - ieeexplore.ieee.org

… Abstract: In this study, a modified **antipodal Vivaldi antenna** (AVA) with low cross-polarisation is proposed for ultrawideband communications. The bandwidth offered by conventional single petal AVA is enhanced by adding another petal. This dual petal antenna occupies a …

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A miniaturized **antipodal Vivaldi antenna** for 5G communication applications

AS Dixit, S Kumar - 2020 7th International Conference on …, 2020 - ieeexplore.ieee.org

… Abstract—This paper reports the design of a miniaturized 1 X 4 **Antipodal Vivaldi Antenna** (AVA) for 5th generation (5G) communication applications. The size of proposed AVA is 28.8 mm X 24 mm x 0.254 mm and it is designed by using Rogers RT5880 substrate. Initially, 1 x 4 …

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Exponential **antipodal Vivaldi antenna** with exponential dielectric lens

M Amiri, F Tofigh, A Ghafoorzadeh-Yazdi… - IEEE Antennas and …, 2017 - ieeexplore.ieee.org

… This paper presents an exponential **antipodal Vivaldi antenna** (EAVA) with a dielectric lens replaced part of the substrate in antenna aperture; with dimensions of 76×130 mm2. The shape of the lens also follows exponential structure in its inner (where lens meets the antenna …

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Improved radiation characteristics of small **antipodal Vivaldi antenna** for microwave and millimeter-wave imaging applications

M Moosazadeh, S Kharkovsky… - IEEE Antennas and …, 2017 - ieeexplore.ieee.org

… Samali, “UWB elliptically-tapered **antipodal Vivaldi antenna** for microwave imaging ap- … Samali, “Miniaturized UWB **antipodal Vivaldi antenna** and its application for detection of void … [6] IT Nasser and TM Weller, “A novel method for improving **antipodal Vivaldi antenna** …

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Pesquisas relacionadas

"antipodal vivaldi antenna" **uwb applications**

"antipodal vivaldi antenna" **array**

balanced "antipodal vivaldi antenna"

"antipodal vivaldi antenna" **imaging**

ultra-wideband "antipodal vivaldi antenna"

modified "antipodal vivaldi antenna"

"antipodal vivaldi antenna" **improved radiation**

"antipodal vivaldi antenna" **dielectric lens**

"antipodal vivaldi antenna" **compact**

"antipodal vivaldi antenna" **radiation characteristics**

high gain "antipodal vivaldi antenna"

miniaturized "antipodal vivaldi antenna"

"antipodal vivaldi antenna" **ghz**

"antipodal vivaldi antenna" **enhancement**

"antipodal vivaldi antenna" **microwave imaging**

"antipodal vivaldi antenna" **wideband**