

## [A novel method for improving antipodal \*\*Vivaldi antenna\*\* performance](#)

IT Nassar, TM Weller - [IEEE Transactions on Antennas and ...](#), 2015 - [ieeexplore.ieee.org](#)

Herein a new method for improving the directivity and bandwidth 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 ...

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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](#)

This letter presents an Exponential Slot Edge Antipodal **Vivaldi Antenna** (ESE-AVA), with improved radiative features as compared to the conventional Antipodal **Vivaldi Antenna** (AVA) design. It extends the low-end bandwidth limitation, mitigates the side and back lobe ...

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## [A compact antipodal \*\*Vivaldi antenna\*\* for UWB applications](#)

R Natarajan, JV George... - [IEEE Antennas and ...](#), 2015 - [ieeexplore.ieee.org](#)

A compact antipodal **Vivaldi antenna** (AVA) with the dimension of 42× 36× 1.6 mm 3 is proposed in this letter. Structural modifications in the radiating fins have increased the electrical length thereby reducing the lower operating frequency from 5.2 GHz to 3.7 GHz ...

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## [A miniaturized CPW-fed antipodal \*\*Vivaldi antenna\*\* with enhanced radiation performance for wideband applications](#)

Z Wang, Y Yin, J Wu, R Lian - [IEEE Antennas and Wireless ...](#), 2016 - [ieeexplore.ieee.org](#)

A miniaturized coplanar waveguide (CPW)-fed antipodal **Vivaldi antenna** (AVA) is presented in this letter. Elliptically shaped strip conductors are used to lower the antenna operating frequency. With two pairs of tapered slots and circularly shaped loads, the radiation ...

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## [A low-cost mechanism to reconfigure the operating frequency band of a \*\*Vivaldi antenna\*\* for cognitive radio and spectrum monitoring applications](#)

C Borda-Fortuny, KF Tong, K Chetty - [IET Microwaves, Antennas & Propagation](#), 2017 - IET

A frequency agile **Vivaldi antenna** whose operating frequency band can be switched between two selected bands is proposed in this study for spectrum monitoring and cognitive radio applications. A radiofrequency (RF) switch is introduced into the back-slot of a **Vivaldi** ...

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## [Compact antipodal \*\*Vivaldi antenna\*\* for UWB applications](#)

GK Pandey, H Verma, MK Meshram - [Electronics Letters](#), 2015 - IET

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 compact high-gain and front-to-back ratio elliptically tapered antipodal \*\*Vivaldi antenna\*\* with trapezoid-shaped dielectric lens](#)

M Moosazadeh, S Kharkovsky - [IEEE Antennas and Wireless ...](#), 2016 - [ieeexplore.ieee.org](#)

A modified compact antipodal **Vivaldi antenna** is proposed with good performance for different applications including microwave and millimeter wave imaging. A step-by-step procedure is applied in this design including conventional antipodal **Vivaldi antenna** (AVA) ...

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## [Exponential antipodal \*\*Vivaldi antenna\*\* with exponential dielectric lens](#)

M Amiri, F Tofigh, AG Yazdi... - [IEEE Antennas Wirel ...](#), 2017 - [ieeexplore.ieee.org](#)

Wireless technologies expansion pose various requirements such as stable radiation characteristics in a wide frequency range. This paper presents an exponential antipodal **Vivaldi antenna** (EAVA) with a dielectric lens replaced part of the substrate in antenna ...

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## Uma Antena Vivaldi Palm Tree com Lente de Substrato para Melhorar o Padrão de Radiação entre 6 e 10GHz

AM De Oliveira, JF Justo, AMO Neto, ST Kofuji... - Revista de Tecnologia ..., 2018 - rtic.com.br

... Palavras chaves — Ultra-wideband, Antipodal **Vivaldi Antenna** (AVA), Slot Edge (SE), Palm Tree ... IEEE 9th Eur. Microw. Conf. pp. 101-105. 1979. [2] E. GAZIT, "Improved design of the **Vivaldi antenna**," IEE Proc. Microw. Anten. Propag. pp. 89-92, Apr. 1988 ...

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## Analysis of Vivaldi array antenna for phased array feeds application

L Liu, K Grainge, A Navarrini - Numerical Electromagnetic and ..., 2017 - ieeexplore.ieee.org

... The low-noise cryogenic front-end operates across the 4 – 8 GHz band and can simultaneously forms four independent beams. Signals from the dual-polarized **Vivaldi antenna** array are combined by an analogue beam former located inside the cryostat ...

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## Pesquisas relacionadas

"vivaldi antenna" **design**

"vivaldi antenna" **array**

**uwb** "vivaldi antenna"

"vivaldi antenna" **applications**

"vivaldi antenna" **wideband**

**ghz** "vivaldi antenna"

"vivaldi antenna" **microwave**

**dual polarized** "vivaldi antenna"

"vivaldi antenna" **radar**

**tapered slot** "vivaldi antenna"

"vivaldi antenna" **microstrip**

"vivaldi antenna" **reconfigurable**

"vivaldi antenna" **design using hfss**

"vivaldi antenna" **improved design**

**balanced antipodal** "vivaldi antenna"

"vivaldi antenna" **fractal**