

[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 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 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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[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 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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[High gain **Vivaldi antenna** for radar and microwave imaging applications](#)

GK Pandey, HS Singh, PK Bharti, A Pandey... - **International Journal of ...**, 2015 - [ijsp.com](#)

Vivaldi antenna with end fire radiation patterns is presented for radar and microwave imaging applications. The **antenna** is operating for 2.9 GHz to more than 11GHz with -10dB impedance bandwidth and is designed on low cost FR4 substrate of thickness 0.8 mm ...

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[A novel miniaturized **Vivaldi antenna** using tapered slot edge with resonant cavity structure for ultrawideband applications](#)

Y Liu, W Zhou, S Yang, W Li, P Li... - IEEE **Antennas** and ..., 2016 - [ieeexplore.ieee.org](#)

In this letter, a novel tapered slot edge with resonant cavity (TSERC) structure is adopted to improve the design of a planar printed conventional **Vivaldi antenna**. The proposed modified structure has the capacity to extend the low-end bandwidth limitation. In addition, the ...

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Microwave and millimetre wave antipodal **Vivaldi antenna** with trapezoid-shaped dielectric lens for imaging of construction materials

M Moosazadeh, S Kharkovsky, JT Case - IET Microwaves, **Antennas & ...**, 2016 - IET

High-quality microwave and millimetre wave imaging of construction materials and structures requires ultra-wideband (UWB) techniques to provide high-range resolution as well as a reasonable penetration depth. A modified compact microwave and millimetre wave ...

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Wideband dual-polarized cross-shaped **Vivaldi antenna**

M Sonkki, D Sánchez-Escuderos... - ... on **Antennas** and ..., 2015 - ieeexplore.ieee.org

Vivaldi antenna or tapered slot **antenna** with over a decade (10.7: 1) of bandwidth. The dual-polarized **antenna** structure is achieved by inserting two orthogonal **Vivaldi antennas** in a cross shaped form without a galvanic contact. The measured-10 dB impedance bandwidth ...

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