

Differential communication information base station





Overview

Which differentially fed antenna is suitable for the current base station?

Differential feeds are unipolar, which is not suitable for the current base station. Then, the broadband differentially fed antennas with dual polarizations are proposed in [17–24]. In [17], the planar antenna enhances the bandwidth by introducing four pairs of parasitic elements. The antenna has a high isolation of 45 dB, but the h.

What is a composite decoupling structure for dual-band dual-polarized base station array?

A composite decoupling structure is proposed to ameliorate the mutual couplings for dual-band dual-polarized base station array. The structure consists of dual-band decouple surface combined with staggered dielectric surface and several meandered line resonators embedded on the ground.

What is a differentially fed antenna?

An H-slot and a differentially fed structure are used to adjust impedance matching. The designed antenna has a high isolation of more than 43 dB and an impedance bandwidth of 20.3% (3.14–3.81 GHz). A novel antenna in [18] adopts a cross-feeding structure and a parasitic element to achieve an impedance bandwidth of 52% (1.

What is a frequency selective surface based dual-band polarized antenna?

This paper presents a frequency selective surface (FSS) based dual-band dual-polarized antenna with compact size and high gain. The proposed dual-band antenna consists of a low band (LB) and a high band (HB) antenna elements. The HB element is coaxially located under the radiator of the LB element, minimizing the overall size.



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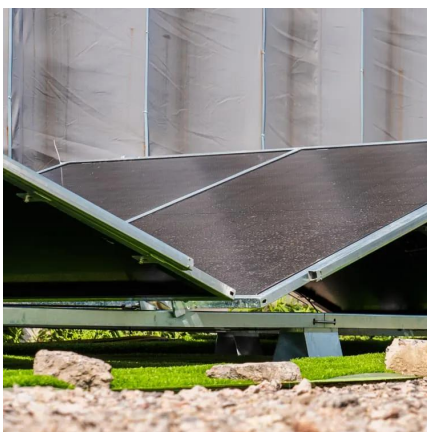


[Uplink MIMO Communications With RIS-Integrated Base Station...](#)

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[A Differential Broadband Dual-Polarized Base Station Antenna Element](#)

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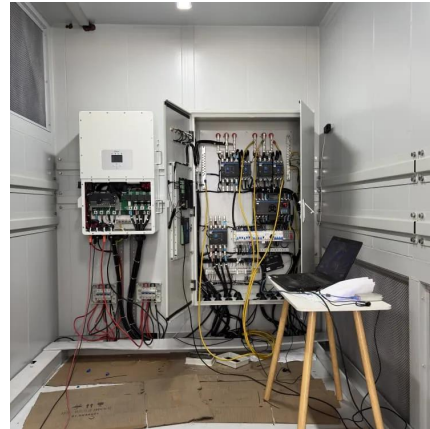


[GNSS differential information acquisition pathways, mobile base](#)

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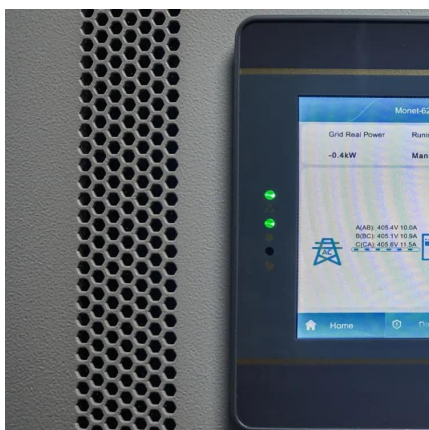
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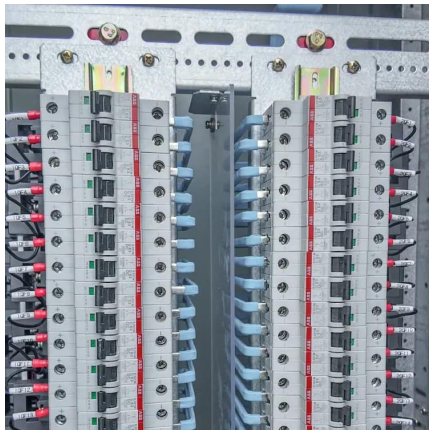
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[A Differential Broadband Dual-Polarized Base Station ...](#)

Jul 25, 2025 · Abstract--In this paper, a broadband differential feed 45 dual-polarized base station antenna element is proposed for 4G and 5G mobile communications. The proposed antenna ...



[A High Isolation Dual-Polarized Base Station Antenna ...](#)

1. INTRODUCTION Today, the communication environment is becoming more and more complex, and signal will inevitably produce attenuation or distortion in the transmission ...



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