
Differential communication information base station

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

Can a 45° dipole antenna be used for 5G base stations?

Here, a 45° dual-polarized wideband dipole antenna with compact size and high XPD is proposed for 5G base stations. The frequency band has been broadened mainly by using a dielectric cavity, and high XPD can be achieved by proper manipulation of the antenna structure.

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 decoupling 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.

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

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 ...

Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and autonomous driving, which connect the ...

The AIS broadcast server can receive differential data in real time from the BD differential data center, and distribute the format-converted BD differential data to AIS base ...

Many broadband antennas have been proposed for 2G/3G/4G base stations [3]-[9]. Researches focus on improving XPD by using differential fed and parasitic strips in [8] and ...

Communication with external units is carried out via radio. The Base Station is designed to work with a variety of different radios to suit different requirements. RACELOGIC has a number of ...

PDF | In this paper, a dual-band dual-polarized antenna with isolation enhancement is designed. The proposed antenna operates in the frequency range of... | Find, read and cite ...

GNSS differential information access: for the acquisition of differential signals, there are generally three ways: 1, through the domestic companies specializing in the operation of differential ...

What data rate does RTK differential need to transmit for the communication transmission protocol of differential positioning ? In order to realize differential data ...

In this paper, a broadband differential feed ± 45° dual-polarized base station antenna element is proposed for 4G and 5G mobile communications. The proposed ant

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