

PEES Power Systems

Base station uplink communication mode



Overview

In 5G New Radio (NR), the NR-UL (Uplink) Transmission Mode refers to the specific configuration and operation of the uplink communication from the User Equipment (UE) to the base station (gNodeB). NR defines multiple uplink transmission modes to accommodate various use cases and. Uplink indicates the transmission path from a mobile or fixed terminal to the network side., Node-B, eNB) is known as the uplink frequency. This topic presents the communication flow between the 5G base station (gNB) and user equipment (UE) nodes, explaining the uplink (UL) and downlink (DL) transmission.

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Uplink Transmission

Uplink transmission refers to the mode in wireless networks where data is sent from user equipment to a base station. It involves compensating for channel fading and controlling interference to ensure the ...

WO2014117335A1

Embodiments of the present invention provide an uplink transmission method, a base station, and a user equipment (UE).



Uplink vs Downlink: Key Differences in Wireless Communication

Uplink refers to transmissions from a ground-based device (like a mobile phone) to a cell tower, while downlink refers to transmissions from the cell tower back to the ground device. Let's delve into the ...

(PDF) Speed-Control Technique for Achieving Fair ...

In this study, we investigate how a single circling UAV with an aerial base station can be used for collecting uplink information from users on the ground.



Optimal Mode Selection in D2D-Enabled Multi-Base Station ...

Device-to-device (D2D) communication recently has emerged as a promising technique for improving system performance. The idea is to enable two mobile devices in proximity of each other to establish ...

NR-UL Transmission Mode

In 5G New Radio (NR), the NR-UL (Uplink) Transmission Mode refers to the specific configuration and operation of the uplink communication from the User Equipment (UE) to the base ...



Uplink MIMO Communications With RIS-Integrated Base Station: ...

In this article, we propose an RIS-



integrated base station (BS) by deploying an RIS sufficiently close to the base station antennas (BAs), within its radiative near-field range.

Communication Between gNB and UE Nodes

This topic presents the communication flow between the 5G base station (gNB) and user equipment (UE) nodes, explaining the uplink (UL) and downlink (DL) transmission.



What is a Satellite Uplink?

In satellite telecommunications, the term "uplink" refers to the process of sending signals from a ground station to a satellite. This is a crucial part of satellite communication, enabling the ...

Who Needs Basestations When We Have Sidelinks? , IEEE Communications

When a mobile device communicates in a cellular network, data is typically going

in both uplink (UL) and downlink (DL) directions to a transceiver entity generally known as a basestation.



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