

PIENAAR ENERGY (PTY) LTD

Three-dimensional communication 5g micro base station



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Dynamic Repositioning of Aerial Base Stations for Enhanced User

This work proposes the use of Aerial Base Stations (ABSs) wherein small cells are mounted on Unmanned Aerial Vehicles (UAVs), which can be deployed to a set of candidate locations.

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Optimization of 5G base station deployment based on quantum genetic

Given the shortcomings in 5 G base station deployment in this article, we propose a three-dimensional (3D) optimization scheme for deploying 5 G base stations at 3.5 GHz in outdoor environments ...



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Optimization of 5G base station deployment based on quantum genetic

We select suitable candidate locations for building base stations on the ground and rooftop, and set restrictions on the height of base station towers. The use of existing base station locations is considered ...



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EFFECT OF BASE STATION HEIGHT ON CHANNEL MODELING IN 5G ...

M. K. Samimi and T. S. Rappaport, "3-D millimeter-wave statistical channel model for 5G wireless system design," IEEE Transactions on Microwave Theory and Techniques, vol. 64, no. 7, pp. 2207-2225, July 2016.

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5g micro base station and three-dimensional communication

The position of a mobile station (MS) is recovered using the estimated channel parameters through the geometrical relationship between base station (BS) and MS in three-dimensional

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Optimal Slicing of mmWave Micro Base Stations for 5G and Beyond

Enhanced Mo-bile BroadBand (eMBB), offers the necessary support for bandwidth-demanding applications like high-definition video, three-dimensional video, cloud-based tasks, and augmented or virtual reality (AR/VR). ...

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Three-dimensional aerial base station location for sudden traffic with



1075KWHH ESS

In this article, for optimizing the three-dimensional (3D) deployment of aerial-BSs for 5G mmWave networks, a classic deep reinforcement learning (DRL) network which named deep Q-network ...

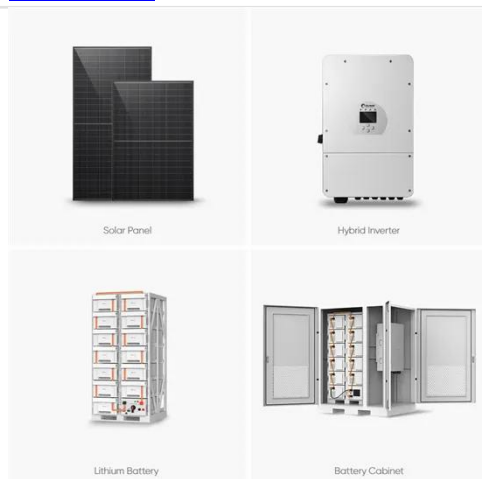
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A 3D-FSS-Based and Front-Feeding Shared-Aperture Base Station ...

This paper presents a novel compact low-profile dual-polarization base station antenna (or unit cell) designed for 5G mobile communications, which does not require additional baffles.



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5g base station three-dimensional communication

· With the development of 5G technology, a convenient and fast emergency communication solution is needed when the local ground base station is unavailable for disaster.

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The utility model relates to a microwave radar and millimeter wave communication technology field,

concretely relates to three-dimensional radar system of MIMO based on 5G basic station.

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