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Intelligent power generation design for communication base stations

CE UN38.3 



Overview

What is a passive is-integrated base station?

In particular, integrating passive IS into the base station (BS) is a novel solution to enhance the wireless network throughput and coverage, both cost-effectively and energy-efficiently. In this article, we provide an overview of IS-integrated BSs for wireless networks.

Can communication and power coordination planning improve communication quality of service?

Our study introduces a communications and power coordination planning (CPCP) model that encompasses both distributed energy resources and base stations to improve communication quality of service.

What are base station types?

Base station types. first the AC/DC or isolated PoE converter generating the intermediate bus voltage of 12 V or 5 V, and then a point-of-load converter to step down once more to the necessary voltage level. If the PoE architecture includes power-sourcing equipment (PSE), a 48-V power rail has to be stepped down to power the PSE controller.

Can a programmable metasurface build a smart base station framework for 6g?

Here, we propose a large-scale 2-bit millimeter-wave programmable metasurface to build an integrated smart base station framework for 6G communications. The meta-array is composed of 30×30 meta-elements, each with two embedded positive-intrinsic-negative (PIN) diodes.

Can a 6g smart base station work indoors?

The experiment results show high consistency with the calculations and simulations, successfully validating the good performance of the proposed system. Additionally, we respectively construct a single-stream system and a

four-stream system for 6G smart base station applications in a realistic indoor scenario.

What is a good performance for a base station auxiliary equipment?

The good performance indicates its significant applications as a base station auxiliary equipment working in the millimeter-wave band and suggests its potential to inspire the development of new wireless communication technologies.

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