Base station power introduction design method

May 13, 2004 · 1.1 Background High efficiency and good linearity are among the very important characteristics of a base station power amplifier used in majority of the modern applications ...

Jan 23, 2023 · Abstract--The fifth generation of the Radio Access Network (RAN) has brought new services, technologies, and paradigms with the corresponding societal benefits. However, ...

An alternative optimization (AO) algorithm is proposed to solve the non-convex problem with highly coupled variables. The original problem is decoupled into two manageable ...

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Oct 15, 2020 · With the exponential growth of mobile communications, Small Cell Base Stations (SCBSs) have emerged as an inevitable solution for 5G networks. Nevertheless, due to the ...

Apr 25, 2022 · In this paper, we will discuss the design method of the base-station dual-band predistortion power amplifier. At first, we will mention the design of a frequency selective ...

Dec 15, 2023 · We conducted design and prototype creation of the 10W class, wideband GaN power amplifier module for 5G base stations that in the final stage had a Doherty power ...

Oct 13, 2023 · The main methods to solve the problem of mutual interference include resource allocation [7], interference cancellation algorithm and precoding design [8]-[10]. The resource ...

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Aug 1, 2025 · This paper presents a method based on DRL for power allocation and base station sleep that jointly optimizes the system EE and SE and gives the terminals the appropriate task ...

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Jul 2, 2024 · The sharp increase in energy consumption imposes enormous pressure on grid power supply and operation costs [7], thus attracting ...

Nov 20, 2024 · Abstract Intelligent surface (IS) is envisioned as a promising technology for the sixth-generation (6G) wireless networks, which can effectively reconfigure the wireless ...

Aug 19, 2025 · To ensure an uninterrupted and reliable power supply for mobile communication base stations, a mathematical model was developed that comprehensively considers the ...

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