# Resonance frequency of wind power in communication base stations



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With the increasing penetration rate of renewable energy in the power system, the unstable issues due to the resonance may emerge. The s-domain nodal admittance.

The experimental results show that the frequency spectrum of the total wind farm power follows a power law with a slope between - 5/3 and - 2, and up to frequencies lower than seen for any individual ...

This paper focuses on the resonance stability problem of a wind power base coupling with a multi-level converter-high-voltage direct-current transmission (MMC-HVDC) system.

To guarantee the reliable and efficient development of wind power generation, oscillation problems in large-scale wind power bases with Type-IV generators are investigated from the view of ...

Based on the s-domain nodal admittance matrix, this paper analyses the resonance structure of the wind power base in scheme 1, mainly in the sub-synchronous frequency range.

Integrating wind power with energy storage technologies is crucial for frequency regulation in modern power systems, ensuring the reliable and cost-effective operation of ... This paper proposes a ...

These distortions can cause different effects on the radio communications services depending on several factors such as the frequency band, the modulation scheme and the discrimination of the ...

We investigate the use of wind turbine-mounted base stations (WTBSs) as a cost-effective solution for regions with high wind energy potential, since it could replace or even outperform ...

This paper presents a comprehensive review on the impact of wind turbines on the telecommunication services, with special dedication to the methodology to be applied in order to ...

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This paper presents methods to model and solve high-frequency resonance problems in HVDC and wind power systems. Control and digital PWM delays are identified as a common root ...

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