High-frequency wind power base station

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 ...

The optimal combination of the Transformer and BiGRU-Attention models for processing sequences with high and low frequency is established according to different characteristics of high ...

Existing research on high-frequency oscillation indicates that the high-frequency oscillation during no-load charging of modular multilevel converter (MMC) station is primarily linked to ...

By taking the time to refine measurement techniques to ensure the most accurate possible test results, we are now able to look at pushing the wind loading eficiency of base station antennas.

By improving aerodynamic eficiency in all 360 degrees, the design improves wind load performance regardless of the wind direction, making it uniquely tailored for base station antennas.

The selection of wind-solar hybrid systems for communication base stations is essentially to find the optimal solution among reliability, cost and environmental protection.

High-frequency oscillation (HFO) of grid-connected wind power generation systems (WPGS) is one of the most critical issues in recent years that threaten the safe access of WPGS to the grid.

To solve the above problems, an ultra-short-term wind power prediction model based on the XGBoost algorithm combined with financial technical index feature engineering and variational ant...

Wind power (WP) is considered as one of the main renewable energy sources (RESs) for future low-carbon and high-cost-efficient power system. However, its low inertia characteristic may ...

This paper investigates the high-frequency oscillation mechanism of wind farm-side MMC station during no-load charging process. First, the harmonic state space (HSS) model of a wind farm ...

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Web: https://anaelenaartistapmu.es