

Title: 5G base station and communication high-voltage substation

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5G systems demand high power to meet incredibly fast data transmission standards, which creates a tradeoff between environmental friendliness and speed. To ensure that 5G does not harm the ...

This study focuses on deploying 5G base stations within substations, selecting a specific substation for physical modeling. It simulates the complex power-frequency electromagnetic ...

Aiming at the engineering problem that 5G base station antenna is difficult to locate efficiently in complex electromagnetic environment, a two-stage positioning method of 5G base ...

This paper proposes an analysis method of an electromagnetic disturbance at the antenna feeder port of a 5G base station under the condition of switching operation of a substation.

This study provides both a theoretical foundation and technical support for the practical deployment of 5G in smart substations, thereby advancing the deep integration of power systems ...

The emergence of 5G wireless communication and its utilization in substation operation presents significant advantages in terms of cost and scalability, while also introducing challenges.

This paper analyzes and deduces the electric field intensity produced by 5G base stations and terminals within substations, investigates the potential interference of 5G on secondary equipment at these ...

oyment of 5G communication equipment in complex electromagnetic environments within substations. To this end, this paper mainly discusses the mutual influence between 5G ...

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