

# Electromagnetic detection method for communication base stations

In this paper, we develop a novel scheme that utilizes orthogonal frequency division multiplexing (OFDM) pilot signals to sense the electromagnetic (EM) property of the target and thus identify the ...

A novel method based on machine learning is proposed to estimate the electromagnetic radiation level at the ground plane near fifth-generation (5G) base stations.

This paper presents the analysis of electromagnetic radiation of mobile base stations co-located with high-voltage transmission towers.

Through the detection of the surrounding electromagnetic environment before and after the construction of a 5G base station, the impact of 5G communication on the electromagnetic environment and the ...

Harnessing the collaborative power of academia, industry, governments and testing laboratories all working together, the latest IEC standard from TC 106 provides international best ...

This paper selects several typical scenes (Open spaces, building concentration areas, user and building intensive areas) for electromagnetic radiation monitoring, and analyzes the ...

Based on the above background, in order to solve the contradiction between the rapid construction of communication BS and the management of EMR environmental impact assessment ...

Knowledge of the electromagnetic radiation characteristics of 5G base stations under different circumstances is useful for risk prevention, assessment, and management.

Performance of three different methodologies and equipment (broadband probes, spectrum analyzers, and drive test scanners), in the context of human exposure to electromagnetic ...

Counters collected in the network management system and methods described in IEC 62232:2022 can be used to verify that the configured actual power or EIRP is not exceeded during ...

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