Electromagnetic interference of communication base stations

Abstract In order to reduce the electromagnetic interference caused by the intro-duction of the 5G base station antenna into the substation to the sensitive equipment in the station, and to optimize the 5G ...

The results of the study showed the feasibility of co-existence between 5G NR and satellite systems in the 6425-7125 MHz bands, and that no negative impact on the performance of the satellite links is ...

Governments around the world do their best to regulate the electromagnetic (EM) spectrum, assigning specific frequency bands to certain communications applications. As these ...

With the development of communication technology, the antenna of 5G base station is arranged near the main equipment area in the substation, which will inevitably cause electromagnetic interference ...

The deployment conditions of 5G base stations in the substation are analyzed according to the national standard of the requirement and measurement methods of electromagnetic compatibility for mobile ...

At the micro level, all of these components in some way transmit electromagnetic waves, which is why a nuclear detonation-which inherently emits electromagnetic interference-will impact communications.

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.

Communication system base stations situated in coastal and border regions exhibit heightened susceptibility to strong electromagnetic pulses. This paper introduces an integrated model of the 2.6 ...

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

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