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Title: How to calculate EMSdb of communication base station

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In this paper a method is presented for calculating the optimal proportion of the two station types and their optimal placement. Random scenarios and a real example from Hurricane Katrina are...

In this method, the geological structure, geographic location of the base station, and the category of the base station in the parameter variables are objectively available when evaluating the ...

Therefore, this paper investigates changes in the instantaneous power consumption of GSM (Global System for Mobile Communications) and UMTS (Universal Mobile Telecommunications System) ...

In this paper, the whole-body models of a 6-year-old child and an adult were used to calculate the brain SAR distribution for environmental EMF exposure. It may be effective when we consider cumulative ...

With respect to base station sites, the simplest RF propagation model is the "free-space" model, whereby the intensity decreases to one quarter when the distance is doubled.

In order to consider suitable computation formulas for underground BS, the electric field (E-field) distributions around the radio sources installed in the housing constructing an underground BS were ...

To find the optimized solution, the multi-objective model with complex constraints needs more efficient algorithms. The existing algorithms, including mathematic algorithm and heuristic ...

"Case studies supporting IEC 62232 - Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human ...

The base station sub-system (BSS) was analyzed, and measurements were collected and recorded in different counters to calculate the transmitted power of the base station.

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