Base station height and communication distance

In this paper, the large-scale propagation performance of Okumura, Hata, and Lee models has been compared varying Mobile Station (MS) antenna height, Transmitter-Receiver (T-R) distance and ...

This paper"s results reveal that one way to address this issue is to lower the BS antenna height to the UE antenna height. However, this requires a revolutionized approach of the BS architecture and ...

This paper presents the design and implementation of a fuzzy multi-criteria handoff algorithm based on signal strength, path-loss and traffic load of base stations and the received signal to ...

§ 24.232 Power and antenna height limits. (a) (1) Base stations with an emission bandwidth of 1 MHz or less are limited to 1640 watts equivalent isotropically radiated power (EIRP) with an antenna height ...

"Wideband millimeter-wave propagation measurements and channel models for future wireless communication system design (Invited Paper)," IEEE Transactions on Communications, vol. 63, no. ...

These curves were developed from extensive measurements using vertical omni-directional antennas at both the base and mobile, and are plotted as a function of frequency in the range 100-1920 MHz and ...

The base station antenna height must be from 30 to 200 meters. The distance between the base station and the mobile station must be from 1 to 20 km. COST231 is a radio propagation model that extends ...

A height of 120 feet or even higher will provide even more advantages for long-distance communications. To a distant receiving station, a transmitting antenna at 120 feet will provide the ...

This paper presents the design and implementation of a fuzzy multi-criteria handoff algorithm based on signal

strength, path-loss and traffic load of base stations and the received signal ...

Higher base station height in a region can increase the coverage area and the number of base stations required. This, however, may result in an increment of interference from other base ...

Here is a simple line of sight calculator that will do the complicated math for you to determine just how far the horizon is from your HT or your base station antenna at any height above level and flat ground ...

Web: https://www.extremeweekend.pl