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Main directions of electromagnetic waves from communication base stations

The radio waves are sent to, and received from, a mast or aerial, called a mobile phone base station.

Near a base station, in regions that are accessible to the general public (for example, at the foot of a base station mast), another important factor must be taken into account: A base station antenna ...

The strength of the radio waves from base station antennas reduces rapidly with increasing distance and the levels at locations where the public can be exposed tend to be small.

Base stations emit radiofrequency electromagnetic fields (RF EMF) in the range from several hundred MHz to several GHz. The exact frequency bands used differ between technologies (GSM, UMTS, ...

Wave propagation describes how electromagnetic waves move from a transmitter to a receiver through various mediums. These waves--oscillations of electric and magnetic fields--carry information like ...

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

The electromagnetic spectrum covers all electromagnetic wave frequencies. It runs from radio, microwave, infrared, visible light, ultraviolet, X-rays, all the way to gamma rays.

EM waves travel in straight lines, unless acted upon by some outside force. They travel faster through a vacuum than through any other medium. As EM waves spread out from the point of origin, they ...

The levels of public exposure to electromagnetic energy from any base station vary depending on antenna type, location and distance from the base station. The base station antennas are most ...

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

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