SOLAR PRO.

Outdoor base station to indoor enhancement

As the name implies, the outdoor base station is used to take into account the indoor coverage. In the early stage of 5G network construction, this solution was favored by operators due to its fast network ...

We coupled heuristic algorithm with GIS to maximize the service coverage of 5G base stations.

Due to the substantial path loss inherent to millimeter-wave (mmWave) frequencies, the signal sent by the outdoor base station is seriously attenuated when it reaches the indoors. Recent ...

Outdoor-to-indoor solution has the advantages of fastest deployment and lowest CapEx, which makes it a popular indoor coverage solution in early stages of network deployment.

Relays extend the outdoor and indoor network coverage of a serving macro cell without requiring additional wired backhaul, and they act as an intermediate node between the base station and a UE.

New methods are being developed to accurately estimate the proportion of traffic in outdoor base stations that is due to indoor activity. Two distinct but interrelated approaches to the indoor traffic ...

A cellular signal booster uses an antenna placed outside the building and an amplifier connected to indoor antennas to rebroadcast the mobile network inside the building.

Passive Distributed Antenna System (DAS) solution is built with a combination of passive components or RF ancillaries like a splitter, coupler, feeder, etc. The passive solution is cost effective and widely ...

In this paper, we study IOS-assisted outdoor-to-indoor mmWave communications where IOSs are installed in an exterior wall of a building to refract mmWave signals from an outdoor base ...

The chipless RFID sensors are built into the wall thick-ness with two outdoor and indoor antennas that can transit the signal from O2I space and converge the dispersed received signals by the wall ...

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