NKOSITHANDILEB SOLAR

Communication signal base station 1 2MWh

Overview

How do BS-relay stations work?

The algorithm takes into account network throughput and coverage to achieve BS-Relay Station deployment. From the perspective of energy and the environment, the power that a BS consumes is proportional to the maximum region that the BS can serve . Cost minimization is an issue that needs to be considered in BS construction.

How is 5G BS signal coverage determined?

The actual 5G BS signal coverage is in three-dimensional space, which is related to the BS plane coverage radius and the BS construction height. The construction height is determined by the performance of the BS and the geographic characteristics of the construction area.

What is the ideal signal coverage?

The ideal signal coverage is circular coverage, and multiple constraints are considered comprehensively to establish a nonlinear programming model with the dual objectives of minimum construction cost and minimum overlapping coverage. 3.

What is the optimal site selection model of a network BS?

The decision variables to be certain contain the total amount of newly-built macro BSs, the total number of micro BSs, the coordinates of the newly-built macro and micro BSs, and the amount of weak coverage points covered by each newly-built macro and micro BS. To sum up, the optimal site selection model of the existing network BS is as follows:

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