ChungKe Wi-Max System RF Planning Interference and Blocking Research

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Abstract

Coverage is not fully addressed if interference is not considered. Interference comes from ambient noise, co-channels and adjacent channels. Consideration must be given to both the uplink and the downlink. SA (Simulated Annealing) [1] technique is used to optimize coverage by varying the bearings and the down tilts. A bandwidth of 30 MHz is allocated for this project at 2.5 GHz. It is divided into three 10-MHz channels. Each user is allowed a maximum of 1 MHz. Each channel is assumed to support a maximum of 70 users. On the average, each site is assumed to have a load of 50 erlangs. The eight sites will put a total of 400 erlangs of traffic on the system.

Keyword：interference, SA, channel, bandwidth, traffic