Abstract

A noise and interference power estimation method for multicell in a TD-SCDMA system includes: sending midamble data to channel estimator and estimating the serving cell and adjacent cell channel response; calculating the sum power by applying the channel estimation of the serving cell and adjacent cells; denoising channel estimations of all cells by a preset threshold; weighting and summarizing useful signal power of serving cell and adjacent cells; calculating noise and interference power by the sum power and useful signal power. The invention solves the difficulty about the estimation of interference and noise power in multicell system, thus improving the system capacity and decreasing the handover error.

Fig.2 is accompanied.

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