ABSTRACT

In the CDMA system, near far effect overcome by power control, so all MS will

have the same power level when the signal to the BTS. The transmitted signal will

experience a good variety or phase amplitude when he arrived at the receiver (due to

fading). Thus to reduce losses due to fading power control is capable of predicting the next

power level to be emitted so that the signal power level is still acceptable side of the

recipient.

Power control is designed to overcome the fast fading is a closed loop power

control, transmit power settings in which MS made by the BTS. In a power control

algorithm is required SIR estimator to determine the level of SIR of the user. SIR value is

used by power control algorithm to determine whether the user must raise or lower its

power in the next period. For obtain of SIR values can use several algorithms. In this final

task is testing the adaptive power control algorithm. The results of the test is how how well

the algorithm used to obtain the value of SIR

In this final task to analyze the performance of ASPC with MLE Estimator at

various speed and active user. The simulation results show that performance of ASPC at 0

km/h and 5 km/h obtain well results. If speed increasing so the performance of this method

is not good enough, acctualy for 80 km/h.

Keyword: Power Control, ASPC, MLE Estimator

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