Home work 2
WCM607

1. What are the differences in power control algorithm in IS-95 and IS-2000?

2. Describe the Power Control Algorithm in 1xEVDO.

3. A synchronous CDMA handset is in 10 dB fade. Assume a 10% error in decoding power control bits. Further assume that every correct power control bit results in 1 dB correction, and that the open loop power control has a linear correction capability of 10 dBs in 100 msec. Assuming that the mobile terminal is transmitting 1/8 rate frames,
    a. Approximately how long it would take for the open loop alone to correct the fade?
    b. Approximately how long it would take for the closed alone to correct the fade if the terminal was IS-95 based?
    c. Approximately how long it would take for the closed alone to correct the fade if the terminal was IS-200 based?
    d. Approximately how long it would take for the open loop and closed loop to correct the fade for an IS-95 terminal?
    e. Approximately how long it would take for the open loop and closed loop to correct the fade for an IS-2000 terminal?