

CLAIMS

What is claimed is:

1. A mobile station comprising:
at least one antenna device configured to receive a plurality of power commands;
algorithm device circuitry configured to implement a plurality of power control algorithms, a first of the plurality of power control algorithms increases or decreases a transmission power level for each received power command and a second of the plurality of power control algorithms compares the plurality of power commands with each other to determine an increase or decrease in the transmission power level.
2. The mobile station of claim 1 further comprising a variable gain device configured to adjust the transmission power level in response to the algorithm device circuitry.
3. The mobile station of claim 1 further comprising a despreader for despreading a received spread-spectrum channel, the received spread-spectrum channel carrying the plurality of power commands, the plurality of power commands being multiplexed in the received spread-spectrum channel; and
a demultiplexer configured to demultiplex the plurality of power commands from the despread received spread-spectrum channel.
4. The mobile station of claim 1 wherein the second of the plurality of power control algorithms increases or decreases by a first amount on a condition that the plurality of compared power commands are the same and not by the first amount on a condition that the plurality of compared power commands are different.
5. A method for setting a transmission power level by a mobile station

comprising:

receiving a plurality of power commands by at least one antenna;
implementing a plurality of power control algorithms, wherein a first of the plurality of power control algorithms increases or decreases the transmission power level for each received power command and a second of the plurality of power control algorithms compares the plurality of power commands to determine an increase or decrease in the transmission power level.

6. The method of claim 5 further comprising adjusting the transmission power level in response to the plurality of power commands.

7. The method of claim 5 further comprising:
despreading a received spread-spectrum channel, the received spread-spectrum channel carrying the plurality of power commands, the plurality of power commands being multiplexed in the received spread-spectrum channel; and
demultiplexing the plurality of power commands from the despread received spread-spectrum channel.

8. The method of claim 5 wherein the second of the plurality of power control algorithms increases or decreases by a first amount on a condition the plurality of compared power commands are the same and not by the first amount on a condition the plurality of compared power commands are different.

9. A mobile station comprising:
at least one antenna device configured to receive a plurality of power commands;
algorithm device circuitry configured to implement a plurality of power control algorithms, a first of the plurality of power control algorithms increases or decreases a transmission power level for each received power command and a second of the plurality of power control algorithms compares the plurality of power commands to

determine an increase or decrease in the transmission power level.

10. The mobile station of claim 9 further comprising a variable gain device configured to adjust the transmission power level in response to the algorithm device circuitry.

11. The mobile station of claim 9 further comprising a despreader for despreading a received spread-spectrum channel, the received spread-spectrum channel carrying the plurality of power commands, the plurality of power commands being multiplexed in the received spread-spectrum channel; and

a demultiplexer configured to demultiplex the plurality of power commands from the despread received spread-spectrum channel.

12. The mobile station of claim 9 wherein the second of the plurality of power control algorithms increases or decreases by a first amount on a condition that the plurality of compared power commands are the same and not by the first amount on a condition that the plurality of compared power commands are different.