

Abstract**METHOD AND APPARATUS FOR TRANSMISSION POWER REGULATION IN A
RADIO SYSTEM**

A method of and apparatus for stable regulation of transmission power level in a radio system use the carrier-to-interference (C/I) ratio of the communication channel. A C/I target that is a monotonically decreasing function of the interference on the channel is used for regulating the transmission power level. Thus, as the interference increases the transmission power increases to compensate, but to a level yielding a lower C/I level. The path loss or gain of the channel may also be determined and used in the regulation.

Figure 5