



ABSTRACT

An invention for providing diversity for direct sequence spread spectrum wireless communication systems is presented. The invention provides a receiver technique in which M antennas are utilized at the receiver. Distinct weighting
5 signals are applied to information signals received at each of the M antennas, with the weighing signals being, for example, distinct changes in either phase or amplitude. Applying weighing signals to each of the information signals received at the M receiver antennas results in constructive addition of derived signal vectors at predetermined intervals, which eliminates deep fading at the receiver.