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ABSTRACT

A SYSTEM AND METHOD FOR PERFORMING LS EQUALIZATION ON A SIGNAL IN AN OFDM SYSTEM

A system for performing LS equalization on a signal in an OFDM system comprises a receiver stage for receiving a modulated signal, a demodulation stage for demodulating the received modulated signal to produce a demodulated signal, a channel estimation stage for processing the demodulated signal to provide an output signal corresponding to a channel frequency response and an equalization stage arranged to process the output signal from the channel estimation stage to produce a channel state information signal. The equalization stage is arranged to use the channel state information signal to operate on the demodulated signal from the demodulation stage to produce an equalized demodulated output signal. There is also disclosed a method for performing LS equalization on a signal in an OFDM system.

[Fig. 4]