

ABSTRACT**MATCHED SPECTRAL NULL CODES
FOR PARTIAL RESPONSE CHANNELS**

A method is provided for encoding and decoding binary data, using a non-quasicatastrophic and phase invariant matched spectral null code for a partial response channel. The method is particularly suited for partial response systems wherein the order of the higher order null in the transfer function of the partial response channel is ≥ 1 , resulting in maximum signal-to-noise (SNR) gain of the channel output. In a preferred form, the method is used to develop a rate 8/10 Nyquist-null trellis code.

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