

ABSTRACT OF THE DISCLOSURE

Trellis Code for Extended Partial Response Maximum
Likelihood (EPRML) Channel

A first trellis code (12A, 20A) according to the present invention is a rate 24/26 trellis code with three (3) bytes error propagation due to EPRML minimum distance channel errors, a minimum of six (6) transitions per code word and a maximum of twelve (12) consecutive zeroes. A second trellis code (12B, 20B) according to the present invention is a rate 48/51 trellis code, derived from the first trellis code. The second trellis code has four (4) bytes error propagation due to EPRML minimum distance channel errors, a minimum of twelve (12) transitions per code word and a maximum of twelve (12) consecutive zeroes. A third trellis code (12C, 20C) according to the present invention is a rate 48/51 trellis code with four (4) bytes error propagation due to EPRML minimum distance channel errors, a minimum of fourteen (14) transitions per code word and a maximum of eleven (11) consecutive zeroes.

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