

(CDMA) combining with multicarrier transmission system. To get the lower bit error rate, the most common types of channel coding methods (LDPC codes, Turbo codes and convolutional codes) are used. To compensate the effect of the non-linearity in the system, a predistortion technique adapted to the SSPA amplifier was adopted. The results show that the performance depends upon the number of active users in the network and performance of encoding/decoding mechanisms.

In conclusion, for a similar code rate we can see that despite the performance offered by the coding structures "Turbo and Convolutional" these coding strategies are less reliable and efficient process compared to LDPC coding. Because this mechanism presented a great potential for improvement and optimization. we can add that the increasing of the code length improves performance but also increases the complexity of the decoding system. it was noted that the integration of the predistortion technique further improves the performance of the coded system.

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