?????, ????, ??????? ?????????????, ????????????? ???????? (???? ???????, 4. I 1964). ?? ???????????? ????????? ? ???? ?????????? 1989, ???????????? 1991, ?????????? 1994. ? ????? ?? ???? ?? ??????? ?? ???????????????? ??? ??????. ?? 2000. ?? ???????? ?? ??????? ?? ???????????? ? ??????? ?? ?????????? ?? ???????????? ???????, ???????? ???????????? ?? ????????? ???????. ????? ?? ??? ???? ??????? ?? ???????? ????????? ???????????????, ??????? ???????????????, ???????????????? ???????, ???????? ??????, ??????? ???????????? ???. ????? ??????? ?? ?????? ????? ???? ????????? ?? ?????? ?? ???????????? ? ????. ???????? ?? ?????? ?????????? ?? ???? ????????? ???? ?????????? ????? ???????? ?? ????????? ?????????????? low-density parity-check (LDPC) ?????? (?????? ? ????? ???????? ??????? ?? ???????), ????? ???????????? ???? ?????????? ?????????? ??????? ?????????? ???? ?????????, ?????? ?? ???????????? ???????? ? ??????? ???????, ???????????? ???????? ?? ?????????????? ?? ????????? ???????????? ???? ??????? ?????? ? ???????????? ???????????? ??????. ???????? ?????? ?????????? ???????????? ?????????? ? ??????? ?????-??????? ?? ?????? ???????? ????????????, ??? ???????? ? ?????? ??????? ? ??????? ??????, ??? ? ????????????? ???????? ?? ??????? ??????? ???????????? ? ???????????? ????????. ?? 2012. ?? *IEEE Fellow* – ????? ???? ??? ???? ???????? ??????? ???????? ?? ??????? ??????????????. ???? ?? ???????????? ?????? ???????? *IEEE Transactions on Magnetics*, ?????????? ??????? ????????? ?????? ???????????? ?????????? *IBM*, *Bell Laboratories*, ???????????? *Media Pipe*, ???? ???????? *Ericsson*, *Fraunhofer-Gesselschaft* ???. ???? ?? ?????? ? ????????? BIO5 – Institute for Collaborative Bioresearch. ??? ?????????? ????? ?? ???????????? ? ???????, ????? ?? ? *Bell Laboratories*. **?.** ?? ?????????? ?????????? ?? ?????????? ???? ?? ???????? ? ???????????? ????????, ? ???? ???? ?? ??????? ?? ?????. ??? ????????? ?? ? ?????????? ???????????? ????????? ? ???? ?????????? ????-???? ??????????. ?????? ????????? ???????????? ? ??????? ? ??????? ?????????????? LDPC ?????? ????????? ?? ?????? ??????? ? ?????????????????? ? ????????? ?? ?????????? ????????. ??? ?????? ?? ????? ???????? ? ?????? ?????????????????? ???????????. ????? ?? 10 ????????. ????? ?? ?? ???????? ??? ???????? ???????????? ???????????? (? E. Kurtas, *Coding and Signal Processing for Magnetic Recording Systems*, New York 2004; ? E. Kurtas, *Advanced Error Control Techniques for Data Storage Systems*, New York 2005), ??? ? ???? ???????? ? ??????? ?????????????.

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