
Below we use the following notation:
Txbk – "Codinig theory and Cryptography" by Hankerson & others.

We may also use notations:
◊ – the proof is not obligatory,
⧫ – an important topic, the proof in particular.
Th - Theorem, Pr - Proposition, Lm - Lemma.

Content of lectures 18-19.

Lecture 18.

Product codes, examples.
⧫ Dimension of a product code.
Minimal distance of a product code.
Various ways to decode a product code.

Lecture 19.

Interleaving with delay.
Coding of the compact disks.

Extended binary codes. Minimal distance for the extended code.
The binary Golay codes G_{23} and G_{24}.
The generating matrix for G_{24}, self-orthogonality of G_{24}.

†Txbk: 7.2, 7.3 and 3.4, 3.5, 3.7.