

Corrections after Second Printing (2007)

p. 18, Problem 1.1 [11 Nov 08]

The scaling in “erf” here is incorrect according to the standard definition of the error function. Therefore, “erf” should be renamed “ f ” (say) all over and not referred to as the “error function,” and its domain should be changed to \mathbb{R}^+ .

p. 21, Problem 1.9, item 4 [28 Feb 12, thanks to P. Vontobel]

In the hint, change “Schwartz” into “Schwarz”.

p. 40, Problem 2.13, part 4, line 1 [20 Nov 18]

Change “part 4” into “part 3”.

p. 46, Problem 2.24, line 17 [19 Dec 12, thanks to U. Pereg]

Change “ F^{2^k} ” into “ \mathbb{R}^{2^k} ”.

p. 121, Problem 4.10 [26 Dec 09, thanks to S. Moran]

In lines 1 and 4, change “ $d = w$ ” and “ $d=2t+1$ ” into “ $d \geq w$ ” and “ $d \geq 2t+1$ ”, respectively (since the attaining code in part 2 can have minimum distance larger than $2t+1$, as is necessarily the case when $q = 2$).

p. 122, Problem 4.12, part 3 [07 Dec 11]

The right-hand side of the equation can be simplified to $(n-t)(q-1)q^{t-1} + q^t$ (counting separately bursts that start at the last t positions).

p. 126, Problem 4.21, part 1 [19 Aug 08]

The inequality can be improved to:

$$P_{\text{err}} \leq \frac{W_C(p) - 1}{q - 1} .$$

p. 180, line 2 [12 Aug 13]

Change “ r ” into “ $(r-2)$ ” (i.e., the bound is stronger than stated). Consequently, change the four occurrences of “ $(D-1)$ ” in Theorem 5.4 (lines 5 and 6) and its proof (last line on p. 180 and line 2 on p. 181) into “ $(D-3)$ ”, and the last two occurrences of “ D ” in Corollary 5.5 (lines 4 and 5) into “ $(D-2)$ ”.

p. 181, line 2 after Corollary 5.5 [12 Aug 13]

Change “namely, when $D < p^{m/2} + 1$ ” into “e.g., when $D \leq p^{m/2} + 1$ ”.

p. 187, Eq. (6.8) [18 Mar 25, thanks to M. Schwartz]

The equation should be changed into:

$$\deg \gamma < \frac{1}{2}(d-1) \quad \text{and} \quad \deg \lambda \leq \frac{1}{2}(d-1)$$

p. 236, Problem 7.11, part 6, line 2 [11 Feb 09, thanks to L. Neeman]

Change “ $2^{2 \cdot 3^n}$ ” into “ $2 \cdot 3^n$ ”.

p. 296, Notes on Section 9.7

[25 Jul 12]

In line 4, change “ $\ell^{O(1)}N \log N$ ” and “ $O(\ell N)$ ” into “ $O(\ell^2 N \log^2 N \log \log N)$ ” and “ N ”, respectively.

p. 433, Problem 13.19, item 3

[28 Feb 12, thanks to P. Vontobel]

In the hint, change “Schwartz” into “Schwarz”.