Bit-Interleaved Coded Modulation: Fundamentals, Analysis and Design LESZEK SZCZECINSKI AND ALEX ALVARADO John Wiley & Sons ISBN: 978-0-470-68617-1

Errata List and Amendments Last updated, March 2, 2016

• Eq. (4.36) should read as

$$I_{p_{\boldsymbol{Y}|\boldsymbol{B}}}^{\text{gmi}}(\boldsymbol{B};\boldsymbol{Y}) = \mathbb{E}_{\boldsymbol{B},\boldsymbol{Y}} \left[\log_2 \frac{p_{\boldsymbol{Y}|\boldsymbol{B}}(\boldsymbol{Y}|\boldsymbol{B})}{\sum_{\boldsymbol{b}\in\mathbb{B}^m} P_{\boldsymbol{B}}(\boldsymbol{b}) p_{\boldsymbol{Y}|\boldsymbol{B}}(\boldsymbol{Y}|\boldsymbol{b})} \right]$$
(4.36)

- The equation in the first line of the proof of Theorem 4.11 (p. 86) should read $P_{\mathbf{B}}(\mathbf{b}) = \prod_{k=1}^{m} P_{B_k}(b_k)$.
- Eq. (4.48) should read as

$$I_{q,s}^{\text{gmi}}(\boldsymbol{B};\boldsymbol{Y}) = \mathbb{E}_{\boldsymbol{B},\boldsymbol{Y}} \left[\log_2 \frac{\prod_{k=1}^m [q_k(B_k,\boldsymbol{Y})]^s}{\sum_{\boldsymbol{b}\in\mathbb{B}^m} \prod_{k=1}^m P_{B_k}(b_k) [q_k(b_k,\boldsymbol{Y})]^s} \right]$$
(4.48)

- Theorem 4.24: "If the bits B_1, \ldots, B_m are i.i.d." should read "If the bits B_1, \ldots, B_m are independent"
- The line after (7.56) should read "which, when used in (7.21), yields".
- The left-hand side of (7.69) should read $p_{\tilde{\Lambda}^{\Sigma,c}}(l)$
- Fig. 4.8 should be replaced by Fig. 1

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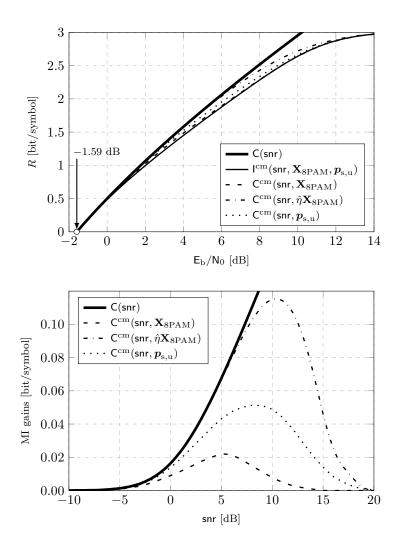


Figure 1: Replacement for Fig. 4.8