Duman/Ghrayeb "Coding for MIMO Communication Systems"

ERRATA (updated on 9/4/08)

- Chapter 2, p. 24: Replace "x" with "x_j" in Equation 2.26.

- Chapter 2, p. 24: "arg min" should read "arg max" in Equations 2.27 and 2.28.

- Chapter 2, p. 24 and 27: $\sqrt{\rho}$ is missing in Equations 2.29 and 2.37.

- Chapter 3, p. 61: "$\leq$" should read "$<$" in Eqn. 3.45.

- Chapter 3, p. 61: "$k\,2^R - 1$" in the numerator should read "$k(2^R - 1)$" in Eqn 3.48.

- Chapter 4, p. 75: $y_j(1), y_j(2), y_j(k)$ in Eqns (4.16)-(4.18) should be $y'_j(1), y'_j(2), y'_j(k)$.

- Chapter 4, p. 80: The symbol "T" should be "N" in the line just before 4.36.

- Chapter 5, p. 96: "arg min" should read "arg max" in Equations 5.2 and 5.3.

- Chapter 5, p. 98: In the second line after Equation 5.14, $\mathbf{U}^H\mathbf{A}\mathbf{U}$ should read $\mathbf{U}^H\mathbf{\Lambda}\mathbf{U}$.

- Chapter 5, p. 105: The caption of Figure 5.6 should read " ... and one/two receive antennas)."

- Chapter 5, p. 108: 4th and 5th lines of Section 5.4.2 should read "... for four- $(s = 2)$, eight- $(s = 3)$ and 16-state $(s = 4)$ ..."

- Chapter 5, p. 111: Exponents in $(5.41) - (5.43)$ should read "$-N_r$" instead of "N_r".

- Chapter 6, p. 126: "trace$\{\mathbf{X}^H\mathbf{X}\} = 1$" and NOT "$N_t$" in the 5th line after (6.2).

- Chapter 8, p. 225: In the example, $\mathbf{S}_4$ should read

$$\mathbf{S}_4 = \left[\begin{array}{cc} 0 & j \\ j & 0 \end{array}\right].$$

- Chapter 8, p. 226: Equation (8.43) should read

$$\hat{\mathbf{S}}_k = \arg\max_{\mathbf{S}_k \in \mathcal{S}} \mathrm{Re}\left\{\mathrm{trace}\left\{\mathbf{S}_k\mathbf{Y}_{k-1}\mathbf{Y}_k^H\right\}\right\}.$$

- Chapter 8, p. 228: "noncoherent detection" in the captions of Figures 8.11 and 8.12 should read "differential detection."

- Chapter 9, p. 242: In line 7, $\mathbf{X}(N)$ should read $\mathbf{N}(N)$.