ON MIMO SYSTEMS AND ADAPTIVE ARRAYS FOR WIRELESS COMMUNICATION

Analysis and Practical Issues

Errata, updated 2002-10-10

Mattias Wennström

- p.7 On row 15, reference (1.1) should be (1.7).
- p.11 Section 1.1.2, the word "casual" should be "causal".
- p.29 Row 7 and 8, $s_i(n)$ should be $s^{(i)}(n)$.
- p.33 Row 6, $s_k(n)$ should be $s^{(k)}(n)$.
- p.46 On row 9 from the bottom, the word achieve is missing after the word can.
- p.54-55 The figures 2.2,2.3 have wrong labels on the y-axes. It should be ratio and not percentage.
 - p.62 C in equation (2.111) should be C_S .
 - p.96 Equation (3.44) should be $\rho_{l,p}^{m,q} \approx \frac{E^2[H_{m,q} E\{H_{m,q}\}(H_{l,p} E\{H_{l,p}\})^*]}{E[|H_{m,q} E\{H_{m,q}\}|^2]E[|H_{l,p} E\{H_{l,p}\}|^2]}$
 - p.99 Equation (3.45) and on the line above \hat{C} should be \hat{C}_S .
 - p.99 Equation (3.46), \hat{C} should be \hat{C}_{noCSI}
 - p.100 Last row of equation (3.47) should be $\log_2 \det \left\{ \mathbf{I} + \frac{P_T}{\sigma_2^2} \mathbf{R}_R \right\}$.
 - p.100 $\mathbf{H}\mathbf{H}^* = \mathbf{I}$ should be $\mathbf{H}\mathbf{H}^* = n_t\mathbf{I}$ to make the normalization correct.
 - p.100 Row 7 from the end, $mn_rn_tm_f$ should be $n_rn_tm_f$.
 - p.131 C in equation (3.96) should be C_S .
 - p.150 I in equation (3.141) should be $I = C(\mathbf{H})$.
 - p.150 R_0 in equation (3.142) and (3.145) should be C_{P_0} .
 - p.162 Equation (4.3) should be CINR = $\frac{n_r \sigma_d^2}{\sigma_n^2} \left(1 \frac{n_r \sigma_i^2 |\rho|^2}{\sigma_n^2 + n_r \sigma_i^2} \right)$
 - p.230 The sentence beginning with "The aim of this section ..." should be removed.
- p.232-233 Equation (6.41) should be $\nu_c=(3M_f^2-6M_f+r)/8$ where r=0 if $M_f=2a$, r=3 if $M_f=4a+1$ and r=-1 if $M_f=4a+3$ and a is a non-negative integer. Furthermore, equation (6.44) should be updated to $\nu_c^e=\nu_c-(M_f-1)/2$ for M_f odd.
 - p.263 Section 7.5.1, first row $F(\phi)$ should be $|F(\phi)|^2$.
 - p.259 C should be C_{noCSI} in equation (7.4) and on row 13 and 16.