Corrigenda and Addenda

A few additional footnotes, and corrections of typos, were not included in the finally printed version of the book (A. F. Molisch, "Wireless Communications", Wiley, 2005).

p. 20, line 7 from bottom:
Unlicensed UWB operation has been approved in the USA, but no widespread deployment is in operation by the time of publication of this book (2005). In September 2005, Japan and Europe suggested a regulation that would allow UWB transmission in conjunction with adaptive spectral usage (detect and avoid). However, no formal ruling has been issued along these lines by the time of publication of this book (2005).  

Page 37, line 9
The phrase "The noise figure F is the ratio of the output SNR to the input SNR...." should read "The noise figure F is the ratio of the input SNR to the output SNR...."

p. 46, lines below Eq. (4.4)
The $d_{\phi}$ should read "$d$" in the two lines below Eq. (4.4)

p. 113, Eq. (6.51)
The terms $r_{RX}, r_{RX}$ in the argument of the right-hand side of the equation should be omitted.

p. 123, Eq. (7.7)
Eq. (7.7) should read $P_t \propto \exp \left( -\frac{T_L}{\Gamma} \right) .$

p. 130, 3rd line
The $H$ in the argument of $E \{ . \}$ should be bold $H$.

The arguments of $M$ on the l.h.s. should only be $\phi$

p. 187, line above Eq. (11.33)
"Euclidean distance" should be replaced by "squared Euclidean distance". Similarly, this should be done also on p. 215, first line; p. 218, line 10; p. 267, above Eq. (14.2); p. 281, 4 lines from bottom, and last line; p. 282, third and seventh line.

p. 214, below Eq. (12.14):  
The sentence should read "...for the symbol $m$ whose transmit vector....."

p. 215, Eq. (12.23):
All $s$ on the right-hand-side should be bold, $s$.

p. 218, line 11:
The expression should read $\sqrt{E_B} (\pm 1 \pm j)$

p. 287, Eq. (14.34), and 2 lines below:

$x$ should be replaced by $r$

p. 374, 2 lines below Fig.18.4
"Pseudo Noise Sequence=maximum length sequence". should read "MLSR-sequence (maximum-length shift register sequence). In the following, PN-sequence should be replaced by MLSR sequence

p. 374, Eq. (18.2)
replace “$M_{C-1}$” by “$M_{C}$”

p. 375, line 15
The phrase “...it is possible to generate $2^N_{\text{reg}} - 1$ sequences that have....” should read “...it is possible to generate $2^N_{\text{reg}} - 1$ sequences (by taking shifted versions of one m-sequence) that have....”

p. 415, Eq. 19.19
the first summation should run from $q=0$ to $N-1$ (and not $N$).

p. 454, Example 20.4:
The following should be added as a footnote to Example 20.4: "Note that the step from Eq. (20.46) to (20.47) involves approximations that are not detailed further here. It leads to a result that is somewhat similar to the result of [ Ayadi et al. 2002]: J. Ayadi, A. A. Hutter, and J. Farserotu, "On the multiple input multiple output capacity of Rician channels", Proc. Int. Symp. Wireless Personal Multimedia Communications 2002; pp. 402-406 (2002). This paper also gives a more detailed derivation."

p. 504, footnote 3
"January 5th” should read “January 6th”

p. 507, line 11 to 14
the indices for which are transmitted should be
b4i+8i, if b2i+8=0, bi+12=0
2+b4i+1+8i, if b2i+8=1, bi+12=0
4+b4i+2+8i, if b2i+9=0, bi+12=1
6+b4i+3+8i, if b2i+9=1, bi+12=1

p. 513, line 12-14:
The sentence should read "higher peak data rates – namely, up to 2 Mbit/s indoor and 384 kbit/s outdoor – which should result in a choice of channels with a bandwidth of 5 MHz instead of 200 kHz of GSM;
p. 519-533:
Figures 23.4-23.13 are from reference [3GPP].
Appendix 7.A
In table 7.1, the validity range of the Okomura-Hata model should read 1-20 km, not 1-20 m.
Appendix 22.B, "Modulation and coding for the downlink"
replace "where the spreading rate can vary between 2 and 512" by "where the length of the Walsh codes is between 4 and 512"
The errors in the main text were partly corrected in the second printing, July 2006.
Abbreviations
EDSCD should read "EDCSD".
"Parallel Interface Cancellation" should read "Parallel Interference Cancellation".
"Public Switched Public Data Network" should read "Packet Switched Public Data Network".
The line of P-CCPCH should be eliminated
"NB Narrow Ban" should read "NB Narrow Band"
Symbols
Ediff,is denoted as "field strength of diffuse field", it should read "field strength of diffracted field"