Errata for
"Controlling Radiated Emissions by Design" Second Edition Mardiguian

Page		Description
44	Example 2.6	Emission level interpolated from the graph should be –21dBμV/m.

Example should then be as follows:

1. E_0 for 2m dipole & 0dBμV	–21dBμV/m
2. Length corr. * 20 log $(1.20/1)^2$	+3
3. Amplitude corr (10^5mV)	+100
E = 1 + 2 + 3	82 dBμV/m (42 dB above classB)

44 . — Example 2.6 — Footnote – According to Mardiguian, emissions go up with length squared

Footnote should then be as follows:

* for a voltage driven wire, and below resonance, radiation efficiency increases like the square of length. (relates to equivalent radiating area).

47 — Example 2.7 — E = 0.021 x I(1.20m x2) x 0.05 x 452 = should be:

$E = 0.021 \times I \times (1.20m \times 2) \times 0.05 \times 45^2 =$
(That is, the frequency should be squared)

71 — Example 3.6 — 3^{rd} line down should read:
An external cable with unknown balance is carrying differential data <u>with random content</u>, at 25 Mb rate.

7^{th} line down should read:
1) 25Mb Diffl. signal (random)

73 — Example 3.6 — After line, add:
Notice that there is no fixed repitition rate for the 20nS, random pulses.

137 — Eqn 6.6

$$Xtalk(dB) = 20Log\{(\omega Rv(C_{1-2}) / \sqrt{[\omega Rv(C_2 + C_{1-2})^2 + 1]}\}$$

Should be

$$Xtalk(dB) = 20Log\{\omega Rv(C_{1-2}) / \sqrt{[(\omega Rv(C_2 + C_{1-2}))^2 + 1]}\}$$

138 — Bottom paragraph — $V_c \times R \times C_{1-2}\ \omega \cos \omega t$ could be rewritten as

$V_c \times R \times \omega \times C_{1-2} \times \cos \omega t$

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Page		Description
140	Table 6.1	for w/h = 1 & s/h = 0.3 @ Freq. = 10 MHz to 1 GHz, table values should be:

10 MHz	-56
30 MHz	-46
100 MHz	-36
300 MHz	-26
1 GHz	-18

140 Table 6.1 For column heading of w/h = 3 @ 1 GHz, table values should be:

For	s/h = 10	-43
	s/h = 3	-31
	s/h = 1	-23

141 Paragraph 8. The C1-2 capacitance is approximately 0.6 – 1 time

should be
The C1-2 capacitance is approximately 0.6 – 1 times

C 329 C.2 should be $L_0 nH / cm = 2\ln(\frac{6h}{t + 0.8w})$

333 D.2 Ferrite inductance example should read:
L = 0.3μH (1 turn) x N^2, - - -