Errata for Y. Tsividis and C. McAndrew, *Operation and Modeling of the MOS Transistor*, 3d edition, **1st and 2nd printings**

(To check which printing you have, look at the copyright page. On the third line from bottom, look at the numbers next to the words "printing number". **The rightmost number is the number of the printing; so if it is "1" or "2", the corrections below apply.**)

Page	Identifier	Correction
14	(1.2.24) and following line	Script $E_s \rightarrow \epsilon_s$
64	Prob. 1.14	Show → Verify
78	(2.4.12)	$n_A \rightarrow N_A$
88	(2.6.1b)	$2\phi_F/\phi_t) \rightarrow 2\phi_F)/\phi_t$
104	(2.7.10)	$-\psi_s/2\phi_t \rightarrow -\psi_s/(2\phi_t)$
107	3rd line	C'_{ox} is seen → C'_{gb} is seen
109	Fig. 2.25	$C_{gb,l} \rightarrow C'_{gb,l}$
123	1st item of bullet list	$V_{CB} \rightarrow V_{GB}$
132	Sec. 3.4.1, 7th line	$V_{GC} \rightarrow V_{CB}$
135	Table 3.2, 6th row	$3.8b \rightarrow 3.8a$
135	Table 3.2, 12th row	$3.1c \rightarrow 3.8a$
138	Two lines above (3.4.19)	see Fig. 3.6 → see Fig. 3.7
140	Footnote, last line	2.6 → 2.7
143	10th line	3.14 → 3.13
159	Two lines below (4.3.1)	4.4 → 4.5
177	Line above equation	3.16 → 3.15
180	(4.4.24a,b)	$-\phi_t Q'^2_{I0} \rightarrow -\phi_t Q'_{I0}$ $-\phi_t Q'^2_{IL} \rightarrow -\phi_t Q'_{IL}$
188	(4.7.8)	$Q'_I \rightarrow Q'_B$
189	Paragraph before last, last line	(4.4.7) → (4.6.7)
205	Line below last equation	(4.6.6) → (4.8.6)
209	References in line above equation	104, 108 → 83, 84, 89; 111 → 107
223	Fig. 4.34	left $R \rightarrow R_S$; right $R \rightarrow R_D$ right $V_{GS} \rightarrow \tilde{V}_{GS}$
229	Fig. 4.39	$V_{SB} = 2.0$ V → $V_{SB} = -2.0$ V
241	Prob. 4.15	After "$Q'_I = 0$", add "at the drain end of the channel".
252	Line 11	$V_{DS} \rightarrow V_{GS}$
276	8th line of 1st paragraph	$V_{GS} \rightarrow V_{DS}$
291	3rd line below (5.10.8)	$\epsilon_{ox}\hat{t}_{ox} \rightarrow \epsilon_{ox}/\hat{t}_{ox}$
291	Two lines below (5.10.11)	proportional → inversely proportional
292	Three lines below (5.10.13)	and so will V_{GB} → and so will $\hat{V}_{T0}$
294	Line below (5.11.4)	$\Delta\psi_s \rightarrow \Delta\phi_0$
297	Two lines above (5.12.1)	Cross out "the field in the oxide E_{ox}"
297	(5.12.1)	Change eq. to $J_G(x) = -Q'_I(x)p_t(x)$
298	1st and 2nd lines	Cross out "where B_t is a constant of proportionality";

		replace "$E_{ox}(x)$" by "the oxide potential $\psi_{ox}(x)$"
315	4th and 3rd lines from bottom	Replace all ref. numbers by "239-241"
328	Prob. 5.17	Add: "Assume $C_F'' = 1\times10^{-11}$ F/cm."
337	(6.3.4b)	$i_T(t) \rightarrow -i_T(t)$
349	(6.4.33)	Insert minus sign after equal sign
352	6th line below (6.4.47)	$W/L \rightarrow WL$
361	3rd line	$i_{CA} \rightarrow i_{DA}$
366	Fig. 6.14(c)	Add absolute value signs to charges shown
383	Prob. 6.3	$t_{ox} = 2\,\text{nA} \rightarrow t_{ox} = 2\,\text{nm}$
384	Prob. 6.6 (*b*)	"found in Prob. 6.5"→"found in Prob. 6.4"
384	Prob. 6.10	Add: "Use the model found in Prob. 6.9."
417	3rd line above (7.3.2)	$\lvert Q_B \rvert \rightarrow \lvert \Delta Q_B \rvert$
432	Line above (7.3.39)	Replace "Neglecting the derivative in (7.3.33)" by "Thus from (7.3.5) and (6.4.49)"
433	7th line from bottom	"5.11 and 5.12" → "5.10 and 5.11"
439	3rd line	5.10 → 5.11
442	Three lines above (7.5.12)	7.34 → 7.33
453	1st line	4.10 → 4.11
453	2nd line below (7.5.33)	"256c" → "236c, 256, 257"
453	5th line below (7.5.33)	"Ref. 256c" → "Refs. 236c, 257"
456	3rd line of Sec. 7.5.5	7.2 → 7.19
470	Prob. 7.18	"(7.3.12), (7.3.13) and (7.3.16)" → "(7.3.14), (7.3.15) and (7.3.20)"
471	Prob. 7.31	Delete ", for V_{GS} =0.6, 0.8, and 1.0V"
471	Prob. 7.33 2nd line	$\chi \rightarrow X$
487	Line below (8.2.31*h*)	"(7.2.12) and (7.2.13)"→"(7.3.12) and (7.3.13)"
489	Line below (8.2.37r)	"(7.2.12) and (7.2.13)"→"(7.3.12) and (7.3.13)"
493	(8.3.4)	The second "=" should be a "+"
499	Fig. 8.18	$v_{gs} \rightarrow v_g$
504	(8.4.30f)	$v_{CS} \rightarrow v_{cs}$
512	(8.4.69*c*)	$\tau_1 - \tau_2 \rightarrow \tau_1 - \tau_3$
553	Footnote	9.3.2 → 9.4
562	Fig. 9.7 caption	Replace first "ΔL" by "N_{AB}"; second "ΔL" by "$N_I(y)$"; "γ" by "N_{AB}- $N_I(y)$".
569	10th line from bottom	Appendix I → Appendix J
574	Figure 9.17	$C_{GG} \rightarrow C_{gg}$
637	(10.8.3)	In last fraction, multiply numerator by ω
649	Prob. 10.10, first line	$I_D - V_{DS} \rightarrow I_D - V_{GS}$
661	line above (C.2)	$\varepsilon \rightarrow$ script E
669	(E.3)	E → script E
682	(G.20), inside brackets	$/\phi_t \rightarrow /(n\phi_t)$ (twice)

Last updated 10-18-2012