

Errata and Remarks

M.R. Schroeder
Computer Speech, 2nd Edition

1 Errors

Line numbers are given as “page; line” and counted from top to bottom without figure captions and footnotes; negative line numbers: counted from bottom to top.

Page; line or equation	wrong	correct
Preface; par. 3, line 4:	Norman	Noam
Preface; par. 3, line 7:	annd	and
8; 15:	idiosynchrases	idiosyncrasies
31; 4:	plexiglas	Plexiglas
31; 5 in caption of Fig. 2.6:	plexiglass	Plexiglas
36; 4:	Chap. 10	Chap. 11
109; 18:	Chap. 10	Chap. 11
118; 4:	Sect. 10.14	Sect. 11.14
138; -10:	Chap. 8	Chap. 11
138; -5:	Chap. 7	Chap. 9
142; 8:	specific gravity	density
151; 6:	Chap. 10	Chap. 11
151; -9:	/a:/	/ɑ:/
151; -5:	/schwa/	/ə/
173; 8:	Chap. 10	Chap. 11
173; (9.2), next line, (9.3), (9.4), (9.6):	\hat{s}	\check{s}
173; (9.4):	—	+
173; (9.6):	$\gamma(t)$	$\varphi(t)$
208; 16, unnumbered equation:	π	1
211; 2:	Sect.10.4	Sect. 11.4
220; (11.37), ONLY right of brace, twice:	$\hat{\sigma}$	\hat{s}
220; 4:	Sect. 10.8	Sect. 11.8
223; 11:	Sect. 10.5.1	Sect. 11.5.1

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2 Remarks regarding contents

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Page; line or equation	Remark
57; par. 2 in 3.1.4:	The restriction “two-dimensional” is not required.
110; -5:	“quasiperiodicity” not meant in the mathematical sense, but as approximate periodicity.
115; 5.3.2:	“prediction filter” $A(z)$ is more exactly called “prediction error filter” or “inverse filter”, since the actual prediction filter is $1 - A(z)$.
145; -6:	“fiber bundles” not meant in the mathematical sense.
165; -8 ...-4:	“the logarithmic rate of change ...” not actually fulfilled.
168; -5 ...-1:	The present view is rather that the sensory input of the OHC itself, not that of the IHC, is used for the amplifying feedback.
217; -6:	Möbius function: $\mu(n) = 1$ for $n = 1$, $= 0$ if n is divisible by a square, $= (-1)^k$ if n is the product of k distinct primes.
221; -13:	This is only approximately possible, since the Hilbert transform is not in general realizable.
226; (11.51) and following text:	Actually, in the text, ω itself is considered complex ($= -is$) and s is not used.
231; 16 and following text:	There are setups where the quotient of distance and group delay as well as the AM envelope variations can exceed the velocity of light. Still, closer analysis shows that causality is preserved.
232; 16/17:	$v_\varphi = c^2/v_g$ and $v_g < c$ hold only above the cutoff (cuton?) frequency of the wave guide.
240; 7..10:	These statements about the FT of $W(t, \omega)$ are incorrect. Inverse FT of W with respect to ω first yields $\rho(t, \tau) = s^*(t - \tau/2)s(t + \tau/2)$; then $s(t) \sim \rho(t/2, t)$. (Analogously for FT with respect to t)
241; Sect. 11.14:	Note that the c of “cepstrum” is pronounced [k].

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