

Transmission of Information by Orthogonal Functions, Second Edition
Springer-Verlag, New York, Heidelberg, Berlin 1972.

page	para	line	
11	5	2	<i>pulse</i> instead of <i>gulse</i> [second line after Eq.(5)]
13			line 2 from end: $P_2(x) = \frac{1}{2}(3x^2 - 1)$
16	3	3	[5 - 6] instead of [5 - 7]
17			Eq.(6), line 1: $a(j, \nu) =$
23			in $\text{wal}(5, \theta) =: \text{wal}[2, 2(\theta - \frac{1}{4})]$ instead of $\text{wal}[2, 2(\theta + \frac{1}{4})]$
28	4	1	write “ ... group under multiplication unless ... ”
63			Eq.(1): $[s_{2k, m-1}^{[j/2], x} + (-1)^{j+p} s_{2k+1, m-1}^{[j/2], x}]$
94			Eq.(4), line 1: $d\mu$ instead of $d\theta$
152			Eq.(10), line 4: $-v_1(m-2)$ instead of $+v_1(m-2)$
163			last equation: $\int_{-\infty}^{\infty} G(\nu)(\cos 2\pi\nu\theta + \sin 2\pi\nu\theta)d\nu$
195	1	10	LP instead of TP
198	3	5	LP instead of TP
241	1	3	$\Theta \leq \theta \leq 3\Theta$ instead of $0 \leq \theta \leq \Theta$
272	2	3	transition instead of transistion
331			Eq.(6), line 2: $\sigma_a^2 = \lim_{\nu \rightarrow \infty} \dots$
368			1.1.1 instead of 1.11

Sequency Theory (Foundations and Applications)

In the series "Advances in Electronics and Electron Physics" (L.Marton, editor), Supplement 9. Academic Press, New York 1977.

page	para	line	
22	1	2	functions are instead of functions is
71	1	8	samples of instread of samples or
152	6		<i>qs</i> instead of <i>rs</i> (7 times)
236	2	1	at the ends instead of at the end
237			Eq.(15): $3(\dot{\mathbf{p}}\mathbf{r})\mathbf{r}/r^3 \rightarrow 3(\dot{\mathbf{p}}\mathbf{r})\mathbf{r}/r^2$
248			Eq.(2), right: $\mu_0 Z_0^2 \rightarrow \mu_0 Z_0^{-2}$
249			Eq.(6): $\ddot{\mathbf{m}}\mathbf{r}/r^2 \rightarrow (\ddot{\mathbf{m}}\mathbf{r})\mathbf{r}/r^2$
249			Eq.(8): brackets $(a/4\pi c^2)[1/r \dots \mathbf{a}/a]$
255			Eq.(1): $\mathbf{r}_1 = \mathbf{r} - \gamma\mathbf{u}/2, \mathbf{r}_2 = \mathbf{r} + \gamma\mathbf{u}/2$
257			Fig.323-1: $\gamma a^{1/2}\mathbf{a} \rightarrow \gamma a^{-1/2}\mathbf{a}$ (twice)
260	1	1	$E_D(1/r, t, \varphi) \rightarrow \mathbf{E}_D(1/r, t, \varphi)$
260			Fig.331-1, top: $D/2r' \rightarrow D/2r$
260			Eq.(5): insert Δx before summation sign
261			Eq.(8): $Z_0^{-1}E_D^2 \rightarrow Z_0^{-1}r^{-2}E_D^2$
263			Eq.(16), line 7: $r - r/c \rightarrow t - r/c$
266			Eq.(1), line 1: insert E in front of summation sign
268	2	1	$T/2 - (kd \sin \varphi)/c \rightarrow \Delta T/2 - (kd \sin \varphi)/c$
269			Fig.332-5d: $(2md \sin \varphi)/cT \rightarrow (2d \sin \varphi)/cT$
280			Eq.(2): $\sin(\beta + \pi/4) \rightarrow \sin 2\beta$
280			Eq.(3): eliminate $d\beta = -(c/2R)dt$
281			Eq.(4): $u(t) = 2\pi R^2(ct/R)^{1/2}(1 - ct/2R)(1 - ct/4R)^{1/2}$
281			Fig.336-4, a: $R(1 - \sin \beta d\beta \rightarrow R(1 - \sin \beta)$
297	3	6	right-hand instead of left-hand
317			Fig.352-4: show oscillograms of Fig.352-6
319			Fig.352-6: show equipment of Fig.352.4
335	3	5	$d \text{wal}_1[2, (t - t_0)/T(1 - 2v/c)]dt$ (dt added)
336	2	1, 4	$K(t, 0) \rightarrow K(t_p, 0)$, (lines 1 and 4 of Sec.2.6-4)
346	4	10	line after Eq.(3): nonsinusoidal instead of sinusoidal
400	3	5	cylindrical wave instead of spherical wave
408	2	1	Figure 422-1c shows \rightarrow Figures 422-1c, d show
414	2	3	$-4 \rightarrow \frac{1}{4}$ (same for caption of Fig.422-6)
462			Eq.(8): $\delta_{\nu, \nu-2}, \delta_{\nu, \nu+1}$ are missing
466			Section 4.7.3 contains several typographical errors that are corrected in <i>Dirac's Difference Equation and the Physics of Finite Differences</i> , H.F.Harmuth, B.Meffert, Elsevier, Amsterdam 2008, Section 6.7. The equations for s_2, s_3, s_4, s_5 , and p remain unchanged.
472			Eq.(9): $d_{02} = -7/6 + \lambda + j/(\Delta x)^2$

Acoustic Imaging with Electronic Circuits

In the series "Advances in Electronics and Electron Physics" (L.Marton, editor), Supplement 11. Academic Press, New York 1979..

page	para	line	
26			Eq.(15): remove k, m from equations for i, h
26			Eq.(17): $\pi A(\sin$ instead of $A(\sin$ in denominator (twice)
81	1		ends of lines 8-13: fast 352, 64 amplifiers 1344
83			Fig.3.4-2: $s2^n/2 - 1$ instead of $s2/2 - 1$ in line $2^n - 3$
84			Eqs.(5) to (8): $= 2^{-n}$ (add a factor 2^{-n})
85			top equation: $2\pi lk/2n$ instead of $2\pi lk$ (three times)
85			all parentheses equal: $() ()$
99	2	3	$-2\pi v/\lambda$ instead of $-\lambda/2\pi v$
140			Eqs.(12), (13): $f + f_i$ instead of $f - f_i$ on right (4 times)
157	2	13	than seven instead of that seven

Nonsinusoidal Waves for Radar and Radio Communication

In the series "Advances in Electronics and Electron Physics" (L.Marton, editor), Supplement 14. Academic Press, New York 1981.

page	para	line	
11			Fig.1.2-7: in feedback loop: $tT/(T^2 + t^2) \rightarrow tT/(T^2 - t^2)$, $j(j+1)/T \rightarrow (j(j+1)/T^2$
103			line following Eq.(43): $P_{\text{peak}}(1/r) \rightarrow P_{\text{peak}}(1/r^2)$
117			Eq.(2): $q^2 E^2 s^2 \sin^2 \alpha \rightarrow q^2 E^2 s^2 \sin^2 \alpha / R$ end of last two lines: $\gamma s / 2r \rightarrow \gamma s / 2c$ last line $E(t- \rightarrow E[t-$
118			Fig.3.4-3, row b: $+(\gamma s \sin \alpha) / 2c \rightarrow +(\gamma s \cos \alpha) / 2c$
143			Fig.4.6-5, delay circuit denoted 219T: $r \rightarrow p$
164			Eq.(3): $2xX_1/d_{11} \rightarrow 2x_1X/d_{11}$
165	3	2	$d_{12} \rightarrow d_{21}$, line 4: $xX_1 \rightarrow x_1X$
166			Eq.(12): $= \rightarrow \doteq$
199			Eq.(75): $v(0, \beta) \rightarrow v(0, \beta, t)$ $[2\pi ft - kd \sin \beta / \lambda] \rightarrow [2\pi(ft - k \sin \beta / \lambda)]$ Eqs.(76), (77), (78): $v(0, \beta) \rightarrow v(0, \beta, t)$ Eq.(78): $(2\pi ndk / \lambda n) \rightarrow (2\pi ndk \sin \beta / \lambda n)$
201			Eq.(85): $2\pi f / t \rightarrow 2\pi f(t$
223	1	1	$K / (P_N)^{1/2} \rightarrow K P_N^{1/2}$
226			Eqs.(1)-(3): $t_1 / 2c \rightarrow ct_1 / 2$, $t_2 / 2c \rightarrow ct_2 / 2$, $t_3 / c \rightarrow ct_3$
227			Eq.(4): $(t_3 - t_1) / c \rightarrow c(t_3 - t_1)$
234	1	3	two pairs instead of four pairs
247			Eq.(8): $D_{\text{GM}}^2 - (H_R \rightarrow D_{\text{GM}}^2 + (H_R$
253	1	5	Earth instead of earth
284			Eq.(4): $\int_f^g \rightarrow \int_e^f$, $\int_g^h \rightarrow \int_f^g$, $\int_h^i \rightarrow \int_g^h$ line before Eq.(5): a ... h instead of a ... i Eq.(5): $h = T_D -$ instead of $i = T_D -$ line after Eq.(5): 9→8 (twice), a ... i → a ... h lines 3, 4, 5 after Eq.(5): 9→8, $15 \times 9 = 135 \rightarrow 15 \times 8 = 120$, $135 \rightarrow 120$
285	2	3	$15 \times 8 = 120$ instead of $15 \times 9 = 135$
292	1	1	ninth jump instead of seventh jump
323			Fig.6.3-12: Replace 8 times T_0 by T_D at the delay lines DEL 21, 31, 22, 32, 24, 34, 25, and DEL 35.
331	1	8	$\Delta F \rightarrow \Delta f$
359	4	6	Earth instead of earth
360			line before Eq.(9): η_W instead of ηw

Antennas and Waveguides for Nonsinusoidal Waves

In the series "Advances in Electronics and Electron Physics" (P.W.Hawkes, editor), Supplement 15. Academic Press, New York 1984.

page	para	line	
6			Top of Fig.1.2-4: $T = 2\pi\sqrt{LC}$ instead of $T = 2\pi\sqrt{L/C}$
44			footnote, line 3: $[m^2kg/s^3]$ instead of $[m^3kg/s^3]$
46	2	3	current instead of currect
50			Eq.(41): $\text{grad}(1/r^3 \dots)$ instead of $\text{grad}(1/r^{-3} \dots)$
51			Eq.(47), line 2: $\partial(sr \cos \vartheta)/r\partial\vartheta$ instead of $\partial(sr \cos \vartheta)\partial\vartheta$
58			Fig.2.3-3: \mathbf{E}_0 on line from C to R should be \circ not \bullet
59	3	7	A instead of <i>A</i>
70			Eq.(6): $1/i^2$ instead of $1/i$
96			Eqs.(8), (9): $(d^2i/dt^2)^2$ instead of d^2i/dt^2
96			Eq.(9), line 1: $(a/4\pi c^2 r)^2$ instead of $(a/4\pi c^2 r)$
96			Eqs.(10), (11): upper limit of first integral ΔT instead of T
100			Eqs.(3), (4): $di(x + c_0r/c - c_0t)$ instead of $di(x - c_0t)$
125			last text line and Eq.(11): P_{es} instead of P_s
135	3	1	above Eq.(11): electromotive instead of electromagnetic
139	2	5	Pentodes instead of Penthodes
165	1	2	$D'e/\Delta T$ instead of $De/\Delta T$
166			Eq.(2): $0.5(2k - 1)d \sin \beta$ instead of $(2k - 1)d \sin \beta$
253			Eq.(35): $l, s =$ instead of $k, s =$
257			Eq.(8): $= -H_{02}/H_{01}$ instead of $= H_{02}/H_{01}$
262	1		wave frequency instead of signal frequency (twice)

Propagation of Nonsinusoidal Electromagnetic Waves

In the series "Advances in Electronics and Electron Physics" (P.W.Hawkes, editor), Supplement 18. Academic Press, New York 1986.

page	para	line	
15			Eq.(6): limit of sum is $k\Delta T$ instead of $k\Delta t$
26			Eq.(1) line 2, Eq.(2): $dF(t)/dt$ instead of $dF(t'')/dt''$
28			Eq.(14) line 3, Eq.(15): $d^2F(t)/dt^2$ instead of $d^2F(t'')/dt''^2$
46	1	3	choose instead of chose
51			Eq.(59): e^{-uy} instead of e^{uy}
62			line 2 after Eq.(15): $e^{+t/ \tau } - 1$ instead of $e^{-t/ \tau } - 1$
65			Eq.(36): $u(y, t)$ instead of $u(t)$
65			Eq.(38), line 2: $(\eta^2 - 1)^{1/2}$ instead of $(\eta^2 -)^{1/2}$
71			Eq.(18), line 2: numerator $\text{sh}(\alpha^2 - \beta^2 c^2)^{1/2} t$
76			equation on bottom of page: $A_1(\kappa)(\gamma_1 + 2\alpha)$
85			Eq.(18): + instead of - in front of $2/\pi$
86			Eq.(25): integration limits 1 to ∞ in second integral
161			Eq.(13), line 1: $t - r_t/c_2$ instead of $t - r_t/c$
176			Eqs.(23), (24): $d\rho_s(t)/dt$ instead of $d\rho_s(t'')/dt''$

Radiation of Nonsinusoidal Electromagnetic Waves

In the series "Advances in Electronics and Electron Physics" (P.W.Hawkes, editor), Supplement 23, Academic Press Inc., New York 1990.

page	para	line	
17			Fig.1.2-11 caption: P_S/P'_N instead of P_S/P_N
48	1	1	(Harmuth, 1986a) instead of (Harmuth, 1986)
105			page title: 2.2 VECTOR POTENTIAL AND ITS ...
172	2	2	Eq.(1.6-17) instead of Eq.(1.6-15)
172	2	3	Eq.(1.6-11) instead of Eq.(1.6-9)
207	1	11	line 2 after Eq.(184): Eq.(3.1-104) instead of Eq.(3.2-104)
210	1	2	-(3.1-77) instead of -(3.1-78)
240			Eq.(8), right side: $8c\Delta T'/\pi^2 s$ instead of $8c\Delta T'/\pi s$
245			Eq.(14): large parenthesis (in front of $3 - d/s + s/8y$
296	3	1	Eqs.(2.2-83) and ... instead of Eqs.(2.2-84) and ...

Information Theory Applied to Space-Time Physics

World Scientific Publishing Co., Singapore 1992. Original edition in Russian
by Publishing House MIR, Moscow 1989.

page	para	line	
21			Fig.2.2-1: ... (a) 0 bit, (b) 1 bit, (c) 2 bits, (d) 3 bits
41	1	1	2.4-2 instead of 2.2-4
50			Fig.3.1-13: 9 grey spheres 1,y,x=100,101,102,110, ... ,122
75	2	6	Fig.3.4-3a instead of Fig.3.4-2a
101			Fig.4.4-1: rectangle C darker than D but not black
151	3	10	Leave out sentence "One may see ... and ξ ."
159	3	4	Fig.5.6-8c instead of Fig.5.6-8b
174			Eq.(8): GC/Gm instead of DC/Dm
212			Eq.(1): $(-\hbar^2\partial^2/\partial t^2)$ instead of $(\hbar^2\partial^2/\partial t^2)$
212			Eq.(1): $+2ie\hbar c\mathbf{A}$ grad instead of $+ie\hbar c\mathbf{A}$ grad
220			Eq.(6): $\Delta^2/(\Delta\vartheta)^2 + \text{ctn}\vartheta \Delta_2/\Delta\vartheta$ (insert +)
221			Eq.(3): s^{R-1} instead of s^{R+1}
222			Eq.(9), first line: $[(R+2)(R+1) - 2(R+1)]\varphi_n(R+1)$
230	1	6	± 1 instead $+1$
239	1	3	... equation (10.2-1) ... instead of ... equation (1) ...
249			Eq.(3): $e^{-ip_0 \ln R}$ instead of $e^{ip_0 \ln R}$
251	5	2	... than $+2$ to ... instead of ... than -2 to ...
256			Eq.(11): change θ to ϑ (two instances)
277			Section 12.6 contains several typographical errors that were corrected in <i>Dirac's Difference Equation and the Physics of Finite Differences</i> , H.F.Harmuth, B.Meffert, Elsevier, Amsterdam 2008, Section 6.7. The equations for s_2, s_3, s_4, s_5 , and p remain unchanged.
289			... for $R < \epsilon' < 0$ (Nörlund, ... (R instead of r))

Propagation of Electromagnetic Signals

Coauthor Malek G.M. Hussain, Kuwait University, State of Kuwait. World Scientific Publishing Co., Singapore 1994.

page	para	line	
11			Fig.1.2-2: $E(\zeta)\theta^2 S(\theta - \zeta)$ instead of $E(\zeta)\theta^n S(\theta - \zeta)$
11			caption of Fig.1.2-2: $S(\theta - \zeta)$ instead of $S(\zeta - \theta)$
41	2	5	Eqs.(26) and (28) instead of Eqs.(26) and (27)
44	1	1	Eq.(1.7-5) instead of Eq.(1.7-10)
143			Eq.(63): Factor $d\eta$ missing on left side
207	2	2	Eqs.(2.1-53)–(2.1-55) instead of Eqs.(2.1-53)–(2.1-54)
224			Eq.(22): Factor $d\eta$ missing on left side
230	1	1	$4\iota'/\iota$ instead of $4\iota'\iota$
241	1	1	J_{21}^e instead of J_{22}^e
241	1	2	$e^{-\omega_2\theta}$ instead of $e^{-\omega_1\theta}$

Electromagnetic Signals

Reflection, Focusing, Distortion, and Their Practical Applications

Coauthors Raouf N. Boules, Towson University, Maryland, and Malek G.M. Hussain, Kuwait University, State of Kuwait. Kluwer Academic/Plenum Publishers, New York and Dordrecht 1999.

page	para	line	
30			Eq.(7), second line: $(dv/dt)^2$ instead of (dv/dt)
71			The illustrations of Figs.2.4-7 and 2.4-8 are interchanged.
121			footnote: 1986c instead of 1986
129	2	2	Eqs.(6)–(8) instead of Eqs.(6)–(7)
129	3	2	... to (15). instead of ... and (14).
147	2	1	For the focusing ... instead of the focusing ...
156			footnote: 1986c instead of 1986
174			Fig.5.3-7a: $v_S/c = 0.333, 0.423, 0.546$ from left to right for the three plots without parameter
180	2	1	μ , instead of μ .

Interstellar Propagation of Electromagnetic Signals

Coauthor Konstantin A. Lukin, Institute of Radiophysics and Electronics,
Academy of Sciences of Ukraine, Kharkiv. Kluwer Academic/Plenum Publishers,
New York and Dordrecht 2000.

page	para	line	
5	2	6	1992, 1993a instead of 1992a, 1993a
10	2	20	(Harmuth 1993a) instead of (Harmuth 1993)
21			text after Eq.(10): ... plots for \mathbf{g}_m instead of $v(\theta)$
34	1	7	cancellation in last line of paragraph
92			caption of Fig.2.5-9: Eq.(28) instead of Eq.(25)
97			second line from end of page: a_{5I} instead of a_{6R}
101	1	2	Eq.(6.2-1) instead of Eq.(6.1-1)
111	2	1	sets instead of set
133			Eq.(23), second line: \times is missing in front of sin
133			Eq.(25): 3×10^{-7} instead of 3×10^7
135	1	5	line 4 after Eq.(28): $p = 0.3$ instead of $p = 3$
142			The equation $H_H(\zeta, \theta) = \dots$ should be numbered (1).
194	3	5	... slower varying ... instead of ... slower ...
202	2	2	Eq.(2.5-25) instead of Eq.(2.5-26)
209			Fig.5.3-10a: replace 2 by 1.5 on scale of $10^7 \theta''$
211	2	3	Table 5.4-1 instead of Table5.4-1
247			figure caption: Eqs.(4) and (5) instead of Eqs.(3) and (4)
247			second line from end: Eq.(1) instead of Eq.(4)
254			caption of Fig.(6.4-1): Eq.(6.2-1) instead of Eq.(12)
264	1	2	Eqs.(16)-(19) instead of Eqs.(16)-(21)
269	1	1	field instead of fields
