

Misprints

Some misprints we have found in the book are the following:

Chapter 2

Page 38 in problem 2.3.

Write

" Evaluate the Signal-to-Quantization-Noise Ratio when" "

instead of

" Evaluate the Signal-to-Quantization-Ratio when" "

Chapter 3

Page 44 in the example 3.1.

Note that it is $NTF(z)=1-z^{-1}$ and consequently $NTF(e^{j\theta})=1-e^{-j\theta}$. As a result, it should be

$$P_{e,tot} = \frac{P_e}{\pi} \int_0^\pi |NTF(e^{j\theta})| d\theta = \frac{P_e}{\pi} \int_0^\pi |1-e^{-j\theta}|^2 d\theta$$
$$|1-e^{-j\theta}|^2 = |1-(\cos\theta - j\sin\theta)|^2 = 2-2\cos\theta$$

instead of

$$P_{e,tot} = \frac{P_e}{\pi} \int_0^\pi |NTF(e^{j\theta})| d\theta = \frac{P_e}{\pi} \int_0^\pi |1-e^{j\theta}|^2 d\theta$$
$$|1-e^{j\theta}|^2 = |1-(\cos\theta + j\sin\theta)|^2 = 2-2\cos\theta$$

Page 74 in the figure 3.21 of problem 3.4

The first integrator should not have a delay. It should be $\frac{1}{1-z^{-1}}$ instead of $\frac{z^{-1}}{1-z^{-1}}$.

Chapter 4

Page 98 in problem 4.4.

Write

" Can the observed noise shaping be approximated by an inverse Chebyshev high-pass transfer function? "

instead of

" Can the observed noise shaping characteristic be approximated by an inverse high-pass function? "

Page 98 in problem 4.5.

Write

" Repeat with the same NTF..... "

instead of

" Repeat with the same NTFs "

Chapter 5

Page 118 in figure 5.13.

The resistor R_2 in the resonator feedback path, i.e. after the gain $-1/1244$, should be R_1 .

Page 135 in problem 5.4.

Write

".....the integrators have a delay as shown in Fig. 5.4b."

instead of

".....the integrators have delay as it is shown in Fig. 5.4b."

Page 135 in problem 5.5.

It should be

".....the exponential DM in Fig 2.18 is "

instead of

".....the exponential DM in Fig 2. is "

Page 136 in problem 5.6.

Write

"..... the resistors R_2 , R_3 , R_5 in the..... "

instead of

".....the resistors R_2 , R_4 , R_5 in the "

Chapter 6

Page 142 in equation (6.2) it should be

$$Y = Y_1 - H_d Y_2$$

instead of

$$Y = Y_1 + H_d Y_2$$

Page 164 in problem 6.4.

Write

" Calculate the mean value of the error to each state..... "

instead of

" Calculate the mean value of the error between successive states..... "

Chapter 8

Page 206 in the caption of figure 8.8.

" The pass-band is enlarged to demonstrate the degradation "

should be removed.