Errata Sheet (29 June 2016)

p. xx: The entry for $\{g_{j,l}\}$ should say 'with $\{g_{1,l}\} = \{g_l\}$' rather than 'with $\{g_{1,l}\} = \{g_j\}$'. The entries for $\{\tilde{g}_{j,l}\}$, $\{h_{j,l}\}$ and $\{\tilde{h}_{j,l}\}$ need similar corrections also (spotted by Phil Reiss).

p. 25: In the first line, 'the convolution of $\{a_t^*\}$' should be replaced by 'the time reverse of the convolution of $\{a_t^*\}$' (spotted by Himadri Ghosh).

p. 50: In the last line, the plus sign before B_k should be a minus sign (spotted by Weiwei Chung).

p. 72: Immediately below Equation (72), 'As discussed in Section 2.5' should be 'As discussed in Section 2.6' (spotted by William Hamilton).

p. 108: In the first displayed equation, the lower limit in the summation should be $l = -\infty$ rather than $l = \infty$ (spotted by Bill Constantine).

p. 231: The summations in the second displayed equation should be

$$\sum_{l=0}^{L-1} l g_l^2 \text{ and } \sum_{l=0}^{L-1} l h_l^2 \text{ rather than } \sum_{l=0}^{L-1} l g_l \text{ and } \sum_{l=0}^{L-1} l h_l$$

(spotted by Sean Lastuka).

p. 384: The caption to Table 384 should say 'atomic clock fractional frequency deviates' rather than 'atomic fractional frequency deviates'.

p. 448: In the next to last line, 'model radio communications models' should be 'mobile radio communications models' (spotted by Sang-Hoon Park).

p. 459: In the first displayed equation, $\gamma_{j,0}(\cdot)$ should be $\gamma_{j,0}(t)$.

pp. 509–10: The solution to Exercise [50b] should read as follows starting from the second sentence:

The kth row of $\mathcal{F}$ is $\mathcal{F}_{k\bullet}^T$, so its tth component is given by

$$\frac{e^{-i2\pi tk/N}}{\sqrt{N}} = \frac{e^{-i2\pi f_k t}}{\sqrt{N}},$$

and the tth component of $F_k \mathcal{F}_{k\bullet}$ is given by

$$\begin{aligned}\frac{1}{\sqrt{N}} F_k e^{-i2\pi f_k t} &= \frac{1}{\sqrt{N}} \left(A_k - iB_k\right) \left(\cos(2\pi f_k t) - i \sin(2\pi f_k t)\right) \\ &= \frac{1}{\sqrt{N}} \big[A_k \cos(2\pi f_k t) - B_k \sin(2\pi f_k t) \\ &\qquad - i \left(A_k \sin(2\pi f_k t) + B_k \cos(2\pi f_k t)\right) \big],\end{aligned}$$

from which it follows that the tth component of $2\Re\left(F_k \mathcal{F}_{k\bullet}\right)$, i.e., $\mathcal{D}_{\mathcal{F},k,t}$, is given by

$$\frac{2}{\sqrt{N}} \left[A_k \cos(2\pi f_k t) - B_k \sin(2\pi f_k t)\right],$$

as required.

(Correction spotted by Weiwei Chung.)

p. 526: In the last displayed equation, all instances of $\tilde{h}$ and $\tilde{g}$ should be $\tilde{h}^\circ$ and $\tilde{g}^\circ$ (spotted by Caleb Dougherty).

p. 532: In the solution to Exercise [262a], the first displayed equation should be

$$J = \begin{vmatrix} 1 & 0 \\ -1 & 1 \end{vmatrix} = 1 \text{ rather than } J = \begin{vmatrix} 1 & 0 \\ 1 & 1 \end{vmatrix} = 1$$

(spotted by Evan Hanusa).