Book Errata

- 1. Page 3, the term "lead-lag" in Table 1-1 should rather be "lag-lead." This same correction applies several times in Chapter 6 as well.
- 2. Page 7, first paragraph, lines 3 and 4, 12 dB/octave should instead both be 6 dB/octave.
- 3. Page 7, Figure 1-6 caption, 12 dB per octave should instead be 6 dB per octave.
- 4. Page 7, Figure 1-7 caption, 12 dB per octave should instead be 6 dB per octave.
- 5. The curve labeled *From* (1.58) in Figure 1-23 should be labeled *From* (1.56).

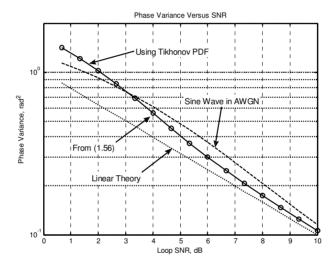


Figure 1-23 Phase variance of several estimators versus SNR: (i) a PLL based on the Tikhonov PDF (1.56), (ii) a sine wave in AWGN from (1.28), and (iii) linear theory versus SNR.

 Page 65, Table 2-6, second row in table, third column: the α's should be replaced with γ's. Same table, third row, second column, should read as

$$\frac{1}{2} + \frac{1}{\pi} \tan^{-1} \left(\frac{\lambda}{\alpha} \right)$$

- 7. Page 136, definition for $\mathcal{L}(f)$: Originally, this quantity was defined as given in the text and (4.67) subject to (4.68). Later, the IEEE redefined the quantity in reference [41] of that chapter to with an equal sign (rather than the approximation sign), and without the restriction imposed by (4.68). Some avoid the use of $\mathcal{L}(f)$ altogether now, simply to avoid this possible confusion.
- 8. Page 138, (4.76), the \log_{10} function should be \log_{e} .

$$\sigma_{\theta}^{2} = \sum_{m=1}^{M} \begin{cases} 10^{0.1s_{m}} f_{m} \log_{e} \left(\frac{f_{m+1}}{f_{m}} \right) & \text{for } \alpha_{m} = -1 \\ \frac{f_{m}}{\alpha_{m} + 1} \left[\left(\frac{f_{m+1}}{f_{m}} \right)^{\alpha_{m} + 1} - 1 \right] 10^{0.1s_{m}} & \text{for } \alpha_{m} \neq -1 \end{cases}$$

- 9. Page 139, line 5: $\alpha > -2$ should be replaced by $\alpha < -2$.
- 10. Page 156, Table 4A-1. Similar to item 6 in this list. In the second row in table, third column: the α 's should be replaced with γ 's.
- 11. Page 227, Figures 6.4 and 6.5, the horizontal axis should be labeled "Normalized Frequency" rather than "Normalized Radian Frequency."
- 12. Page 274, second non-indented paragraph, last sentence: Sentence should read as follows: Since the transfer function between the VCO self-noise and the noise observed at the PLL output is given by $H_2(s)$ in (6.10), the gain-peaking factor is given *approximately* by $-20 \log_{10}(11 \exp(-j\phi_U))$) *for small phase margin values*.
- 13. Page 312, Figure 7.11, the curve parameters should be labeled as $\omega_n T_s$ rather than $\omega_s T_s$.
- 14. Page 366, first complete paragraph, first sentence should read: "A state sequence that uses *most* of the available states should be startable from *nearly* every possible set of initial conditions..."