

See page 7 in the User Guide for setup instructions.

Getting the Program Started for the first time:

There are two steps needed to get the program ready initially for use:

- 1) the program must be registered with PTC company.
 - the computer must be on-line so that PTC can communicate with the computer.
 - place the disk into the disk drive and start the Install Sequence,
 - when requested, obtain the Product Code that is on the back of the disk envelope.
 - input the Product Code.
 - complete the installation.
 - this is a one-time procedure for the computer that is being used.
- 2) PTC must license the owner to operate the software.
 - after the program installation is complete, stay on-line and Run the program.
 - the computer is automatically connected to PTC.
 - PTC authorizes the use of the Program
 - a password will be assigned to the single-user.
 - Write down and save this password for future reference in case the program has to be re-installed..
 - This is a one-time procedure for the computer that is being used.
- 3) to verify that the program is working, perform a simple math exercise, such as $(1 + 2)^3 = 27$

p. 2. *Introductory in depth* level.

p. 15. Fig 1-2 caption should read as follows:

Figure 1-2 Time Sequence (a) is converted to spectrum (b) and reconverted to time (c).
 (a) 64-point sequence, time plus dc bias. (b) two-sided spectrum sequence, showing frequency values. (c) spectrum values reconverted to time values.

p. 16. (ω) replaced by (k)

p. 29. first line Fig 2-1c.

p. 30, last line. “real sine” replaced with “-j cosine”

p. 36, Eq. 2-3 is OK for certain amplifying devices, but needs refinement for others. A pentode tube or MOSFET may have very little plate/drain current sensitivity to small plate/drain voltage changes. Eq 2-3 can be modified, using a circuit simulation program that measures the actual Iout vs Vin. Eq 2-3 can become as follows: $I_{out}(n) = [K1 \cdot V_{in}(n) + K2 \cdot V_{out}(n)]^{K3}$ where K1, K2 and K3 approximate the simulation results. This equation then replaces Eq 2-3 in some discrete-signal operations. Ref. “Radio Electronics” Seely, S., 1956 chapter 2.

p. 37, upper graph, Vdc refers to the -8v location on the vertical scale

p. 93 part (h)
$$z(n) = \sum_{k=0}^{N-1} \left(Z(k) \cdot \exp\left(j2\pi k \frac{n}{N}\right) \right)$$

p. 102, variance = average of the square – square of the average

p. 110. Eq 6-15 should be
$$C_{ccv}(\tau) = \frac{1}{N} \sum_{n=0}^{N-1} \left(\left[(x + \epsilon_x)_n - \langle n_x \rangle \right] \left[(y + \epsilon_y)_{(n+\tau)} - \langle n_y \rangle \right] \right) \quad (6-15)$$

p. 113. et al.,1971] (see also the Appendix in this book for examples),

p. 129. About the Hilbert Transform.

In mathematics and in signal processing, the **Hilbert transform** is a linear operator which takes a function, $u(t)$, and produces a function, $\mathcal{H}(u(t))$, with the same domain (t); the symbol \mathcal{H} denotes Hilbert.

See the text in chapter 8 for further insight for discrete-signal operations. An example of a Hilbert Transform is in Fig 8-1(f). Review Eq 8-4. See Google for very interesting information about David Hilbert.

p. 133. Fig.8-1g disappear in Fig 8-2h.

p. 136. “LaPlace” should be “Laplace”

p. 138. The sum of the *time sequence* $x(n)$ and the *time sequence* $\pm j\hat{x}(n)$ has a *spectrum* that occupies only one-half of the two-sided *phasor* spectrum.

p. 141. Fig 8-3 part (f)
$$xh(n) := \sum_{k=0}^{N-1} \left[XH(k) \cdot \exp\left(j2\pi \frac{k}{N} n\right) \right]$$

p. 142. “is represented as phasors, it is a two-sided SSB phasor spectrum, one”