## Supplemental Errata in Chapman Text

- On page 45, Example 1-10, Equation (1-61) should have, $6 \angle 30^{\circ}$ for $\mathbf{I}, 6 \angle-30^{\circ}$ for $\mathbf{I}^{*}$ and $720 \angle-30^{\circ}$ VA. The final answer is correct.
- In Problem 1-19, $\mathbf{V}=120 \angle 0^{\circ}$.
- In the solution to Example 2-1, the subscript "L" is mysteriously dropped starting in part (c), page 71 .
- p104 "j" missing in Fig 3-16 on primary side inductor.
- (3-51) $L_{O C}$ should be $I_{O C}$
- Example 3-2 table: bottom equation should be $P_{O C}=400 \mathrm{~W}$
- In Problem 5-18, assume the motor is part of a 60 Hz system.
- A sentence in the last full paragraph on page 275 should read, "Notice that at this time the generator is actually operating at a slightly leading power factor, so the load is acting as a capacitor, supplying reactive power."
- Equation (7-6) in Example 7-1 should read

$$
\begin{aligned}
n_{m} & =(1-s) n_{\text {sync }} \\
& =(1-0.05)(1800 \mathrm{r} / \mathrm{min})=1710 \mathrm{r} / \mathrm{min}
\end{aligned}
$$

- On page 300 and 301 , replace all instances of $a_{e f f}$ with $a_{L R}$, as $a_{e f f}$ was used for a different constant on page 296.
- In Example 7-2, the text in Solution a. should read: The air-gap power is just the input power minus the stator $I^{2} R$ losses and core losses.
- In Example 7-3, the parameter $R_{M}$ of $26.3 \Omega$ should be labeled $X_{M}$.
- In Problem 7-13, first sentence, "in parallel" should be "in series."
- Equation (8-24) should have $P_{\text {in }}-P_{\text {loss }}$ in numerator.
- Page 453, just before (9-18), should have $d \lambda=d \phi$ instead of $d \lambda=d x$.
- Last words of page 455 should be "in Figure 9-5."
- In Example 9-1, part (d) resistance per kilometer is given twice as 0.225 ohms, rather than 0.0225 . Also, resistance should be doubled for the two conductors, as is done with inductance and capacitance for single-phase.
- Page 470, phrase preceding (9-63) should read, "and substituting into Equation (9-53)," since the left-hand side of the equation just before the phrase could/should be written as

$$
I_{R} \cos \theta_{R}=\frac{V_{S} \sin \delta}{X_{L}}
$$

- Page 473 item 2. should have $\left|\mathbf{V}_{R}\right| /\left|\mathbf{V}_{S}\right| \geq 0.95$.
- Example 9-3 should have $210-\mathrm{kV}$ line, not $220-\mathrm{kV}$.
- Example $9-4$ is also $210-\mathrm{kV}$.
- Equation (10-6) on page 496 should have $\frac{V_{L L, \text { base }}^{2}}{S_{3 \phi, b a s e}}$
- Page 498 , right-hand side of $(10-12)$ should be 0.0238 per unit
- Equations (10-13) and (10-14) on page 498 should have $\left(\frac{13.8 k V}{13.2 k V}\right)^{2}$ for voltage ratios.
- (10-35) on page 505 should be $\mathbf{I}_{1}=\left(\mathbf{V}_{1}-\mathbf{V}_{2}\right) Y_{\text {line } 1}$
- Problem 10-7, Line 3 has $R=5 \Omega, X=30 \Omega$.
- Equation (11-13), page 519 should have $\left[\frac{-0.3+j 0.2}{\mathbf{V}_{2, \text { old }}^{*}}-\left[(-0.3846+j 1.9231) \mathbf{V}_{1}\right]\right]$ for bracketed term.
- Page 527, "speed-up" number 1 is actually part of normal Gauss-Seidel, so don't think of it as an add-on; you can't be doing Gauss-Seidel without it.
- In both (11-29) and (11-31) on page 537, the minus signs should be removed in front of the VI* products.
- Page 553, Table 11-10 should have, in the P column: 40,30,50,15 and 30 MW in order, top to bottom. The Q column should read, similarly, $25,20,35,5$ and 15 MVAR.
- Page 598, (13-36) should have, as last term, $3 \mathbf{V}_{A 2} \mathbf{I}_{A 2}^{*}$.
- Page 610 , right side of (13-51) should begin with $-Z_{0} \mathbf{I}_{A 1}+\ldots$
- Caption of Figure 13-17 should read "For a double line-to-ground fault,..."
- Problem 13-6, Each line should be $R=8 \Omega, X_{1}=X_{2}=40 \Omega, X_{0}=80 \Omega$.

