

We are pleased to offer this service for our textbook. Our intention is to update this continuously as mistakes are found. It is important that we have your help in this. If you feel there is a mistake and it does not appear here, then email Chuck at [c.alexander@ieee.org](mailto:c.alexander@ieee.org) and he will check it out as soon as he can.

## CHAPTER 1 ERRATA

### Text

**Page 11** In the first paragraph, the last 3 signs on the 12 W values are incorrect. The paragraph should read, “In Fig. 1.10, however, the element supplying power of +12W because a positive current enters the negative terminal. Of course, an absorbing power of -12W is equivalent to a supplying power of +12W.”

**Page 20 and 21** Please note that in Fig. 1.21, we have two  $v_1$ s which is confusing. The  $v_1$ , in most of the equations refers to the node voltage and the equations accurately refer to that term. In addition, there are three additional voltages that are referred to, unfortunately one of them has the same name as the node voltage. There are a few ways to correct this, however the best way is probably to redefine the three voltages as  $v_{2O}$  (which was also referred to as  $v_1$ ),  $v_{8O}$  (also referred to as  $v_2$ ), and  $v_{4O}$  (also referred to as  $v_3$ ). This then changes some of the equations in the middle of the page (page 21).

$$-5 + v_{2O} + v_{8O} = -5 + (-i_1 \times 2) + (I_2 \times 2)$$

and

$$-v_2 + v_4 - 3 = -(i_2 \times 8) + (i_3 \times 4) - 3$$

Please make the above mentioned changes to the element voltages  $v_1$ ,  $v_2$ , and  $v_3$ .

### Examples and Practice Problems

**P.P.1.2**

**Example 1.9** The answer is correct. The last line of the problem statement should read “Over 300 kWh per month at 6 cents/kWh.”

### Problems

**Problem 1.12** Less than or equal signs can be used to more clearly define the problem.

$$i(t) \begin{cases} 3t \text{ A}, & 0 \leq t < 6\text{s} \\ 18 \text{ A}, & 6 \leq t < 10\text{s} \\ -12 \text{ A}, & 10 \leq t < 15\text{s} \\ 0, & 15\text{s} \leq t \end{cases}$$