

## Errata

P. Sandborn, *Course Notes on Manufacturing and Life Cycle Cost Analysis of Electronic Systems*, CALCE EPSC Press, 2005.

- p. 41-42        in the “Reflow” process step the Time should be “10 min/card” instead of “10 min”
- p. 42            the labor and equipment cost calculations should have a multiplier of 56 included in order to produce the numerical result given. Note, including a multiplier of 56 is consistent with the time representing 10 min/card.
- p. 74-78        there are several places in these pages where “interdeparture time” should be used instead of “cycle time”
- p. 79            “\$10,633” should be “\$6,023”
- p. 155          Equations (8.21) and (8.23), replace  $(1-p^m)$  with  $(1-p)^m$  in three places
- p. 177          “ $C_{out}$ ” that appears in the upper right corner should just be “C”
- p. 178 and 194 “74.31” in the calculation of  $C_Y$  should be “74.29” and the final calculated value of  $C_Y$  should be “\$81.19”
- p. 194          The  $C_{out}$  result that reads “\$74.31” should be “\$74.29”
- p. 234          in Figure 11.9, the “k” and “ $U_k$ ” columns should be switched
- p. 250          the standard deviation is  $\sigma$ ,  $\sigma^2$  is the variance
- p. 288          in the final ROI calculation, the Profit should be \$30/sale - \$22.5/sale rather than \$30/sale. This makes the final ROI 0.33 or 33% ROI. 133% should also be changed to 33% in the second slide.
- p. 289          in the final ROI calculation, the Profit should be \$30/sale - (\$22.5/sale + \$57/66.67) rather than \$30/sale. This makes the final ROI 0.28 or 28% ROI. 128% should also be changed to 28% in the second slide.
- p. 305          in calculation A, the “+” sign in the calculation should be omitted, i.e., the two quantities should be multiplied not added
- p. 314          ACT is the fraction of the source code that undergoes change and should be  $ACT = DSI_{maint}/DSI_{develop}$ . The calculation of  $MM_{maint}$  should be:  $MM_{maint} = (ACT^{1.05})(MM_{develop}) = 21.3$  man months; and Maintenance Staffing =  $2.13/12 = 1.8$  people

- p. 319 “12 average external inquires” should be “12 simple external inquires”  
Note, this change must also be reflected in the table at the bottom of the page.
- p. 337 the first term in the numerator of the equation should have a multiplier of “4” in it
- p. 341 the units on the mean ( $\mu$ ) should be “hours” instead of “failures/million hours” and the “1M” appearing at two places in the calculation at the bottom of the page should be removed
- p. 355 the matrix element “ $p(1-q)+(1-p)q$ ” should be “ $p(1-q)+(1-p)p$ ”
- p. 387 “3 year” and “3 years” should be “2 year” and “2 years”