

Scientific Charge-Coupled Devices (PM83)
Errata to first printing

Corrections to Figures

Page 129, Figure 2.15c.: the caption should refer to “Figure 2.15b”, not “Figure 2.15a”.

Pages 459-460, Figures 5.47a and b: all labels in boxes should read “Silicon Type A”.

Corrections to Equations

Page 63, fourth equation: delete “rm”.

Page 147, Equation 2.39 there is a missing “ E_{e-h} ” and should read:

$$\text{“FWHM(eV)} = 2.355 (E(\text{eV}) F_a E_{e-h})^{1/2},\text{”}$$

Page 147, Example 2.14, there is a missing “3.65” and should read:

$$\text{“FWHM} = 2.355 (5.9 \times 10^3 \times 0.1 \times 3.65)^{1/2}$$

$$\text{FWHM} = 109 \text{ eV...”}$$

Page 339, Example 4.13 the “two’ is missing from the equation, and the τ^3 should be τ^4 .
It should read:

“From Eq. (4.18),

$$f_N = 1/[2 \times (15 \times 10^{-4})]”$$

Corrections to Text

Page 75, fourth paragraph, last sentence should be: “if we assume a mobility of 500 cm²/V-sec the Eq.(1.23)...”.

Page 321, after Eq. 4.14, it should read “...where μ_C is the average signal level of the calibration frame (e^-)”.

Page 366, second paragraph should read before Eq. (4.40):

“To convert the responses shown in Fig. 4.70 to MTF, it is necessary to ratio the diffusion signal component to the ideal target pixel signal level as...”

Page 366, should read after Eq. (4.40):

“where S_{TAR} is the ideal target pixel signal level and S_{DIF} is the diffusion level defined in Fig. 4.71(a).”

Page 464, last paragraph, last sentence:

“The single electrons that make up the square wave signal...”.

Page 503, second paragraph should read “. . .that is independent of drain voltage (not source voltage).”

Page 672, Example 7.23, second paragraph, second sentence should read: “Some bright pixels seen in Fig. 7.38b are dark spikes.”

Page 710, Example 7.44, last sentence should read: “...can significantly influence full well performance...”