

TT61 Fourier Transform Spectroscopy

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Errata

1. Pg. 28:
 - a. Last line of text should read: "...OPD is equal to 0.2 cm, consistent with Eq. (3.27)."
 - b. Caption of Fig. 3.12: OPD = 0.2 cm and 0.16 cm instead of 0.01 cm and 0.008 cm, respectively.
2. Pg. 86:
 - a. In Table 8.1, "Responsivity" should be "Spectral range," "Gain" should be "Responsivity," and "Transimpedance" should be "Transimpedance gain."

Table 8.1 System variables for numerical example.

Detector	
Type:	TE-cooled InGaAs
Spectral range:	800–2500 nm
NEP value:	0.5 pW/ $\sqrt{\text{Hz}}$
Responsivity:	~ 1.5 A/W at 1700 nm
Transimpedance gain:	10^7 V/A
Bandwidth:	2 kHz
Spectrometer	
Type:	double-sided interferogram
Interferogram points:	2000 each side
Voltage level of wings:	~ 4 V
Analyzed range of wave numbers:	5850–6000 cm^{-1} with $\rho(\nu)/\rho_{\text{total}}$ of 0.5