Errata for *Field Guide to Radiometry*

1ˢᵗ Printing, all formats

page xiv: The definition of ρ_{ss} should read "single-surface reflectivity"

page xv: The definition of τ_{ss} should read "single-surface transmissivity"

page 19: The third equation should read $F_{d_1,2} = \int_{A_2} \dfrac{\cos\theta_1 \cos\theta_2}{\pi d^2} dA_2 = \int_{A_2} dF_{d_1,d_2}$

The fourth equation should read $F_{12} = \dfrac{1}{A_1} \int_{A_1} \int_{A_2} \dfrac{\cos\theta_1 \cos\theta_2}{\pi d^2} dA_2 dA_1$

page 31: The second sentence of the first text box should begin with "In the thermal infrared,…"

page 32: The first four equations should read as follows:

$$\rho_p = \left(\frac{n_2 \cos\theta_1 - n_1 \cos\theta_2}{n_2 \cos\theta_1 + n_1 \cos\theta_2} \right)^2 \qquad \tau_p = \left(\frac{2n_1 \cos\theta_1}{n_2 \cos\theta_1 + n_1 \cos\theta_2} \right)^2 X$$

$$\rho_s = \left(\frac{n_1 \cos\theta_1 - n_2 \cos\theta_2}{n_1 \cos\theta_1 + n_2 \cos\theta_2} \right)^2 \qquad \tau_s = \left(\frac{2n_1 \cos\theta_1}{n_1 \cos\theta_1 + n_2 \cos\theta_2} \right)^2 X$$

page 35: The final paragraph should read as follows:

When the optical thickness is large, the material becomes opaque and the transmissivity goes to zero. In this case, reflectivity ρ approaches the single-surface reflectivity ρ_{ss}. When the optical thickness approaches zero, the material becomes transparent. In that case,

page 64: The first figure should be replaced with the following:
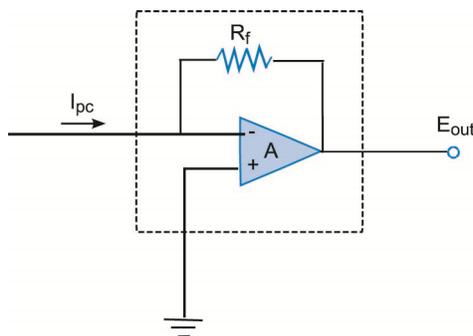
page 92: The right-column header of the first table should read "Illuminance", and right-column header of the second table should read "Luminous intensity".

Page 98: Eq. (4.31): ε is added after the trip integer, and π is removed from the denominator:

$$\varepsilon = \frac{\iiint \varepsilon(\theta, \phi; \lambda) L_{\lambda,BB} \sin\theta \cos\theta \, d\theta \, d\phi \, d\lambda}{\sigma T^4}$$