

Erratum to: Biophotonics

Erratum to:
G. Keiser, *Biophotonics*, Graduate Texts in Physics,
DOI [10.1007/978-981-10-0945-7](https://doi.org/10.1007/978-981-10-0945-7)

The subjected book was inadvertently published without including the following typo errors in some of the chapters. The erratum book and the chapters are updated.

The typo errors are:

Page 86: The last part of Problem 3.7 should be "...V = 3.59."

Page 86: In Problem 3.11 the first line should read: "n_{eff} = 1.479 and Λ = 523 nm at 20 °C."

Page 115: Problem 4.1 should read: "...show that the irradiance is 3.18 W/cm²."

Page 116: In Problem 4.4 "Table 5.1" should be "Table 4.1."

Page 143: The last part of Problem 5.3 should be "...1678 nm."

Page 166: Eq. (6.17) should be

$$Q_s = \frac{8x^4}{3} \left(\frac{n_{\text{rel}}^2 - 1}{n_{\text{rel}}^2 + 2} \right)^2$$

Page 192: In Problem 6.10 the parameter α_a should be μ_a.

Page 192: Problem 6.11: The last part should read "show that μ_s = 9 μ_a."

The updated original online version for this book can be found at
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- Page 227: Problem 7.1: The last part of the second sentence should read “reflection loss of 1.1 dB at a wavelength λ_1 , and a transmission loss of 1.1 dB at a wavelength λ_2 .”
- Page 228: Problem 7.5 should read: “(a) Show that the size of the active area in a bundle with one ring is 0.22 mm^2 . (b) Show that the ratio of the active area to the total cross sectional area of the bundle is 54 %.”
- Page 228: Problem 7.6 should read: “(a) ... the active area in a bundle with two rings is 1.13 mm^2 . (b) ... the active area to the total cross sectional area of the bundle is 53 %.”
- Page 228: Problem 7.8 should read: “the variation in the insertion loss when the longitudinal separation changes from 0.020 mm to 0.025 mm is 0.21 dB.”
- Page 256: Problem 8.5 should read: “Show that the depth of field at a wavelength of 650 nm is $24.5 \text{ }\mu\text{m}$ and $3.24 \text{ }\mu\text{m}$...”
- Page 287: Problem 9.7 should read: “Figure 9.9 shows a spheroid with the radii of the equatorial and polar axes being $0.3 \text{ }\mu\text{m}$ and $2.4 \text{ }\mu\text{m}$, respectively.”
- Page 287: Problem 9.10 should read: “...the curved cylinder has a length of $550 \text{ }\mu\text{m}$ and its radius is $a = 0.5 D_{\text{bottom}} = 150 \text{ }\mu\text{m}$.”