Errata for *Fundamentals of Dispersive Optical Spectroscopy Systems*,
by Wilfried Neumann

First printing

p. xiv, Acknowledgments
Dr. Alexander Scheeline’s name is misspelled.

p. 21, Equation (2.8)
The equation should read: \( m \times \lambda = k \times 2 \sin \alpha \times \cos \varepsilon \)

p. 25, Section 2.4.1, fourth paragraph:
“a difference of 500 nm” should say “a difference of 4.7 nm to 500 nm”

p. 29, Section 2.6.2.1, second paragraph:
“\((f/4^2)/(f/8)^2\)” should be “\((f/4)^2/(f/8)^2\)”

p. 30
The reference to Section 2.7.5 should refer to Section 2.6.2.3

p. 32, first paragraph
The description of Fig. 2.9 should refer to the colors: “yellow dart,” “black frame,” “purple circle,” and “outer circle, marked red”

p. 44, last paragraph
The word “smaller” should say “wider”

p. 45, first line
The word “smaller” should say “wider”

p. 45, Section 2.6.5.4, second paragraph:
Line should begin as follows: "One more example: at a slitwidth of 10 µm and a bandwidth of 20 pm, one step of 20 pm leads into the saddle..."

p. 47, second paragraph:
“grey rectangles” should say “colored rectangles”

p. 47, Section 2.6.5.4.1:
The reference to Section 2.6.6.2 should refer to Section 2.6.5.2

p. 53, first paragraph:
The reference to Section 2.6.7.5.1 should refer to Section 2.6.6.5.2

p. 55, second paragraph:
The reference to Section 4.17 should refer to Section 4.1.6

p. 56, Section 2.6.6.6
The reference to Section 4.1.7.2 should refer to Section 4.1.6.2

p. 57, first line
The sentence should begin, “The larger the lateral distance...”

p. 60, Section 2.8.2, last paragraph:
The reference to Section 2.6.3.3.1 should refer to Section 2.6.2.3

p. 61, Section 2.7.2, first line:
The sentence should begin, “The impact on the focus...”

p. 64, last line:
The sentence should refer to Ref. 1

p. 77, last line:
The reference to Section 5.6.1 should refer to Section 5.6

p. 87, fifth line:
The reference to Section 2.6.7.5 should refer to Section 2.6.6.5
The phrase “single axis” should say “straight axis”.

Only Section 2.6.5.4 should be referred to here.

The blocked parts are marked “black”.

“ration” should say “ratio”.

The reference to Section 2.6.6.4 should refer to Section 2.6.5.1.

The slit-height value for the 1-m double stage should be 20.

The reference to Section 2.6.3 should refer to Section 2.6.2.3.

The reference to Section 4.1.2 should refer to Section 4.1.1.

The sentence should begin, “The Echelle of 316 mm⁻¹…”

The references to Sections 4.1.6 and 4.1.7 should refer to Sections 4.1.5 and 4.1.6, respectively.

The sentence should refer to Ref. 2.

“noise” should say “background noise”.

The value 10⁻³ should be 10⁻².

The sentence should refer to Ref. 2.

The line should refer to Ref. 3.

The line should read, “Typical PMT efficiencies are presented in Fig. 5.3.”

The reference figure should be Fig. 5.5.

Line should refer to Ref. 4.

The reference to Section 5.9.3 should refer to Section 5.9.2.

In the parenthetical, “light grey” should say “green”.

The term “civil” should say “civilian”.

The line should refer to Ref. 4.

The term “capacitive” should say “photoconductive”.

The parenthetical should be removed.

The parenthetical should be removed.

The first three lines should read, “The grey-framed components show that the signal path with lock-in differs in one position. Between the light source and monochromator entrance, a light chopper (C) is placed.”
That also creates a steering signal to synchronize the lock-in.”

p. 171: The last sentence of the Bandwidth entry should be removed

p. 185, second paragraph, third sentence: The word “two” should say “three”

p. 190, fourth sentence from the bottom: The reference to Section 2.6.7 should refer to Section 2.6.6

p. 194, second paragraph, line 17: The term “corner” should read “corners”

p. 198, first paragraph, fifth line: The reference to Section 5.8.4 should refer to Section 5.8.2

p. 200, first paragraph, eighth line: The term “civil” should read “civilian”

p. 205, References The references should be ordered thus:

1. G. F. Knoll
2. J. M. Lerner and A. Thevenon
3. Hamamatsu Photonics
4. W. Neumann

p. 209, first paragraph, seventh line: The reference to Section 2.6.3.3 should refer to Section 2.6.2

p. 210, Section 6.3, fifth line: The two Greek omegas should be capital Omegas

p. 218, third paragraph, last line: The reference to Fig. 6.2 should refer to Fig. 6.1

p. 221, Figure 6.11: The figure should be replaced with the following:

\[ f = \frac{a_1 + a_2}{A_s} \]

\[ E_{\theta(\lambda)} = \frac{R}{\pi A_s (1 - R \times (1 - f))} \]

\[ L_{\theta(\lambda)} = \frac{E_{\theta(\lambda)}}{W} \]  

\[ \text{[W / nm * cm}^2] \]

\[ \text{[W / (sr * cm}^2 * \text{nm} \text{]} \]

p. 227, Section 6.5.1, second line: The term “grey curve” should say “solid curve”

p. 227, Section 6.5.1, third line: The term “S-25 PMT” should say “S-20 PMT”

p. 227, Section 6.5.1, ninth line: The word “blue” should say “dashed”, and the word “red” should say “solid black”
The blaze should be “500 nm (17 deg)”

The changeover value should be “820 nm”

The sentence should start, “If light is available in excess, …”

The reference to Section 4.1.7.1 should refer to Section 4.1.6.1

Revised color descriptions should say, “The vertical position, drawn blue, shows the grating position of reflection, representing 0 nm. The angled arm position (red) represents an angle of 45 deg.”

"10 × 10^4" should say "10^4"

The reference to Section 4.1.5 should refer to Section 4.1.4

The acronym “SUT” should read "DUT"

The superscript reference should be removed

The Greek omega should be a capital Omega

The superscript reference should refer to Ref. 1

The figure reference should refer to Fig. 9.3

The superscript reference should refer to Ref. 2

The references should read as follows:

1. C. Moser and G. Steckman
2. S. Agaian, H. Sarukhanyan, K. Egiazarian, and J. Astola