Errata. Introduction to Lens Design

with Practical Zemax[®] Examples as of February 28, 2005

Note: Any additional errata should be reported to LensDesign@willbell.com. Both the author and publisher will see all e-mail sent to this address.

1. Page 82, Equations 7.6 and 7.7 did not print. They are as follows:

$$PSF = P(\xi, n) \bullet P^{*}(\xi, n)$$

$$T = -\left(\frac{R}{nr}\right) \left(\frac{dW}{dy}\right)$$
(7.6)
(7.7)

- 3. Page 146, delete point 2 in the 4 point list: 2. Try dummy image surface. Any improvement?
- 4. **Page 152,** equation in mid-page should read:

$$S_{II} = \frac{1}{2}(0.349955)4^2(0.020383)^2(0.99507)$$

5. Page 170 Eq. 15.10 should read

$$W_D = \left[W_{311} \overline{H}^3 \right] \rho \cos \phi$$

6. Page 200, Eq. 18.16 should read

$$\Delta \phi_{dC} = \left[(n_{da} - 1) - (n_{Ca} - 1) \right] (C_1 - C_2) + \left[(n_{db} - 1) - (n_{Cb} - 1) \right] (C_3 - C_4)$$

- 7. Page 282, Equation in Figure 25.19 point 4 should read: $P_{\theta} = RA_L \ell A_0^{-2} \times \cos^4 \theta$ where *R* is Radiance.
- 8. Page 291, Third equation down from top of the page should read (no "cm"):

$$u'_P = -0.24876 = u_S$$

9. Page 319, mid page equation, value within parenthesis should read 0.1:

$$c = 43.93(0.1)^2 = 0.4393$$

- 10. Page 335 Second sentence after Section 29.8 should read: This is the same form as Equation 29.29
- 11. Page 336, Figure 29.7 centimeters should read millimeters
- 12. Page 351, in Equation 30.23 the term dy_{CF} should read $d\bar{y}_{CF}$
- 13. **Page 353**, in first line, second paragraph the term dy_{CF} should read $d\bar{y}_{CF}$
- 14. **Page 357,** Table 31.1 replace Greek letter lambda (λ) with symbol for microns (μ m). Second line above Section 31.2.2 (Wavefront Variance) should be changed from $\sigma = 0.05 \lambda$ to $\sigma = 0.05 \mu$ m
- 15. Page 363, reference to Figure 31.6 in last line should be Figure 31.7
- 16. Page 366, just before Equation 32.5, change Equation 32.23 to 32.4
- 17. Page 419, and additional column titled "Strict no DIS" should be added to Table 36.2:

Table 36.2			
	Strict	Strict no DIS	Relaxed
\overline{U}	RMS	RMS	RMS
0°	236µm	100µm	34µm
7°	245	128	77
10°	283	173	114

- 18. Page 430, caption crediting Gaskill under Fig. 37.25 should be moved to Fig. 37.26
- 19. Page 446, Section 29.12 part a) should read . . . and $l'_t = -9.88694''$

20. Page 446, Section 30.9 part 1) the 2/3 fraction should read 3/2:

$$C = (3/2)(R/r)^2 W_{131}^2$$
 where $\overline{H} = 1$

21. Page 460, add index entries under D as follows: degrees of freedom 315, 343