

ERRATA

COLOR APPEARANCE MODELS

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(Addison-Wesley, 1998, ISBN 0-201-63464-3)

Chapter 3

Equation 3-13 should read as follows:

$$Z = k \int_{\lambda} \Phi(\lambda) \bar{z}(\lambda) d\lambda \quad (3-13)$$

Chapter 6

On page 138, the sentence "Spreading, however occurs at spatial frequencies above those at which fusion occurs" should read "Spreading, however occurs at spatial frequencies *below* those at which fusion occurs"

The y-axis label on Fig. 6-11 should read "Chroma".

On page 152, the discussion of Fig. 6-14 reverses the order of Fig. 6-14(b) and 6-14(c). The caption is correct.

The header on page 154 should read "CHAPTER 6".

Chapter 9

Equation 9-7 should read as follows:

$$L_2 = (L_1 / L_{\max 1}) L_{\max 2} \quad (9-7)$$

Chapter 11

A corrected version of Table 11-1 is given below. Only the *highlighted* values have been modified.

Table 11-1. Example Nayatani color appearance model calculations.

Quantity	Case 1	Case 2	Case 3	Case 4
X	19.01	57.06	3.53	19.01
Y	20.00	43.06	6.56	20.00
Z	21.78	31.96	2.14	21.78
X _n	95.05	95.05	109.85	109.85
Y _n	100.00	100.00	100.00	100.00
Z _n	108.88	108.88	35.58	35.58
E _o	5000	500	5000	500
E _{or}	1000	1000	1000	1000
B _r	62.6	67.3	37.5	44.2
L* _P	50.0	73.0	24.5	49.4
L* _N	50.0	75.9	29.7	49.4
θ	257.5	21.6	190.6	236.3
H	317.8	2.1	239.4	303.6
H _C	82B 18R	98R 2Y	61G 39B	96B 4R
S	0.0	37.1	81.3	40.2
C	0.0	48.3	49.3	39.9
M	0.0	42.9	62.1	35.8

Chapter 12

Equation 12-8 should read as follows:

$$f_n[I] = 40[I^{0.73} / (I^{0.73} + 2)] \quad (12-8)$$

Equation 12-17 should read as follows:

$$\rho_D = f_n[(Y_b / Y_w)F_L F_\gamma] - f_n[(Y_b / Y_w)F_L F_\rho] \quad (12-17)$$

A corrected version of Table 12-3 is given below. Only the *highlighted* values have been modified.

Table 12-3. Example Hunt color appearance model calculations.

Quantity	Case 1	Case 2	Case 3	Case 4
X	19.01	57.06	3.53	19.01
Y	20.00	43.06	6.56	20.00
Z	21.78	31.96	2.14	21.78
X_w	95.05	95.05	109.85	109.85
Y_w	100.00	100.00	100.00	100.00
Z_w	108.88	108.88	35.58	35.58
L_A	318.31	31.83	318.31	31.83
N_c	1.0	1.0	1.0	1.0
N_b	75	75	75	75
Discounting?	Y	Y	Y	Y
h_s	<i>269.3</i>	<i>18.6</i>	<i>178.3</i>	<i>262.8</i>
H	<i>317.2</i>	<i>398.8</i>	<i>222.2</i>	<i>313.4</i>
H_C	<i>83B 17R</i>	<i>99R 1B</i>	<i>78G 22B</i>	<i>87B 13R</i>
s	<i>0.03</i>	<i>153.36</i>	<i>245.40</i>	<i>209.29</i>
Q	<i>31.92</i>	<i>31.22</i>	<i>18.90</i>	<i>22.15</i>
J	<i>42.12</i>	<i>66.76</i>	<i>19.56</i>	<i>40.27</i>
C_{94}	<i>0.16</i>	<i>63.89</i>	<i>74.58</i>	<i>73.84</i>
M_{94}	<i>0.16</i>	<i>58.28</i>	<i>76.33</i>	<i>67.35</i>

Chapter 13

On page 274, the text below Eq. 13-14 should read ($M^{-1}A^{-1}$) instead of ($A^{-1}M^{-1}$).

Chapter 14

A corrected version of Table 14-3 is given below. The values were mistakenly calculated using an equal-energy reference white rather than D65. Only the *highlighted* values have been modified.

Table 14-3. Example LLAB color appearance model calculations.

Quantity	Case 1	Case 2	Case 3	Case 4
X	19.01	57.06	3.53	19.01
Y	20.00	43.06	6.56	20.00
Z	21.78	31.96	2.14	21.78
X ₀	95.05	95.05	109.85	109.85
Y ₀	100.00	100.00	100.00	100.00
Z ₀	108.88	108.88	35.58	35.58
L (cd/m ²)	318.31	31.83	318.31	31.83
Y _b	20.0	20.0	20.0	20.0
F _s	3.0	3.0	3.0	3.0
F _L	1.0	1.0	1.0	1.0
F _C	1.0	1.0	1.0	1.0
L _L	<i>37.37</i>	<i>61.26</i>	<i>16.25</i>	<i>39.82</i>
Ch _L	0.01	<i>30.51</i>	<i>30.43</i>	<i>29.34</i>
C _L	0.02	<i>56.55</i>	<i>53.83</i>	<i>54.59</i>
s _L	0.00	<i>0.50</i>	<i>1.87</i>	<i>0.74</i>
h _L	<i>229.5</i>	<i>22.3</i>	<i>173.8</i>	<i>271.9</i>
H _L	<i>72B 28G</i>	<i>98R 2B</i>	<i>90G 10B</i>	<i>86B 14R</i>
A _L	-0.01	<i>52.33</i>	<i>-53.51</i>	<i>1.76</i>
B _L	-0.01	<i>21.43</i>	<i>5.83</i>	<i>-54.56</i>

Appendix A

Equation A-64 should read as follows:

$$s = \frac{50(a^2 + b^2)^{1/2} 100e(10/13)N_c N_{cb}}{R'_a + G'_a + (21/20)B'_a} \quad (\text{A-64})$$

References

The following is a corrected citation:

R.L. Alfvén and M.D. Fairchild, Observer variability in metameric color matches using color reproduction media, *Color Res. Appl.* **22**, 174-188 (1997).