Light and Video Microscopy Third Edition by Randy Wayne

ERRATA CORRIGENDUM and Additions

p. 25 painted a plane mirror that unintentionally did not follow the laws **should be** painted a plane mirror that intentionally or unintentionally did not follow the laws

p. 33 Agustin Fresnel **should be** Augustin Fresnel

p. 34 the more negative the focal length, the greater the magnification **should be** the more negative the focal length, the lesser the magnification

p. 48 heroine **should be** heroin

p. 65 Since $\sin A + \sin B = 2 \cos\left[{(A-B)}/{2}\right] \sin\left[{(A-B)}/{2}\right]$ **should be**:

Since $\sin A + \sin B = 2 \cos\left[{(A-B)}/{2}\right] \sin\left[{(A+B)}/{2}\right]$

p. 67 $x = \left(\frac{D}{d}\right)\left(\frac{m+1}{2}\right)\lambda$ **should be** $x = \left(\frac{D}{d}\right)\left(m+\frac{1}{2}\right)\lambda$

p. 68 Thus the amplitude of the resultant wave **should be** At a maximum, where ${\varphi}/{2}$ is equal to an integral number of wavelengths, the amplitude of the resultant wave

p. 80 we take the sine of 3,5,7 **should be** we take the sine of 3*k*,5*k*,7*k*

p. 113 assumption that d is **should be** assumption that *d* is

p. 114 and NA approaches n **should be** and NA approaches *n*

p. 120 Barbaro **should be** Daniele Barbaro

p. 121 redubbed the deoxidizing rays or chemical rays **should be** redubbed the deoxidizing rays chemical rays

p. 122 was worn **should be** was born

*p. 135. This is a satisfaction **should be** There is a satisfaction*

p. 153 would see to originate **should be** would seem to originate

p. 164 This current requires **should be** This currently requires

p. 183 in situ **should be** *in situ*

p. 189 we become impresses **should be** we become impressed

(1872) should be (1887)

Reference: Stokes, G. G. 1887. Science and revelation. Popular Science Monthly 32 (November), 47-52.

https://en.wikisource.org/wiki/Popular_Science_Monthly/Volume_32/November_1887/Science_and_Revelation

p. 193 The Blue Bower **should be** *The Blue Bower*

p. 194. processed around **should be** precessed around

p. 195 processes around **should be** precesses around

p. 218 Label the optic axis ne…and the axis perpendicular to the optic axis no **should be** Label the optic axis n_e…and the axis perpendicular to the optic axis n_o

p. 226 Consider the same sample that has stress fibers oriented from NE to SW **should be** Consider the same sample that has stress fibers oriented from SE to NW

pp. 233-234

$\ln {K_{eq}}/{K_{std}}$ **should be** $\ln {K_{eq}}/{K_{std}}$ and all other cases of ln should be ln

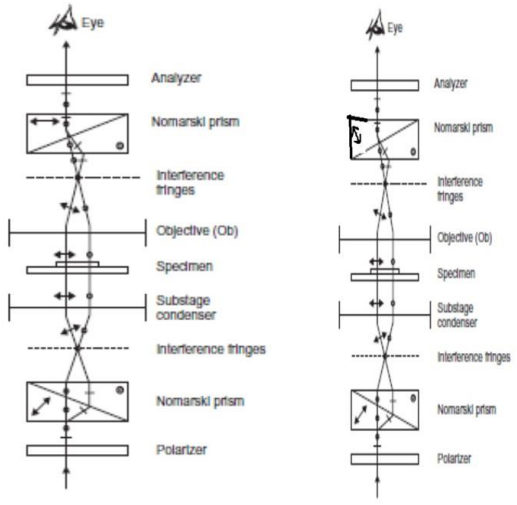
p. 234 Fig 9.43 ${[B]}/{[A_o 2B]}$ **should be** ${[B]}/{[A_o - B]}$

estimate $\Delta H^{std}/R$ **should be** estimate ΔH^{std}

p. 263. Nitella **should be** *Nitella*

Nitellopsis and Chara **should be** *Nitellopsis* and *Chara*

p. 302. Fig 11.10. Top Nomarski prism is wrong in figure on the left and correct in figure on the right.



p. 317 **change** high-contrast image **to** high-contrast image where each point in the image is a point-by-point representation of every point in the object.

p. 323 the electron-multiplying resistor **should be** the electron-multiplying register

equal to 2*n* **should be** equal to 2^n

p. 357. Footnote is missing from text: [1]Note that there are many interesting developments that relate lasers to cells, including turning cells into lasers (Gather and Yun, 2011) and inserting lasers into cells (Schubert et al., 2017).

p. 359 With, spinning disk confocal microscopy, three-dimensional images of multiple fluorophores can be reconstructed **should be** With spinning disk confocal microscopy, three-dimensional images of multiple fluorophores can be reconstructed (Fig. 15.8).

p. 360 Fig. 15.8 **should be** Fig. 15.9

Fig. 15.10 **should be** Fig. 15.8

p. 361 Fig. 15.9 **should be** Fig. 15.10

with the same infrared laser (Fig. 15.10). **should be** with the same infrared laser.

p. 362. like Rayleigh scattering **should be** like Rayleigh scattering,

p. 364 Arabidopsis thaliana **should be** *Arabidopsis thaliana*

p. 369. At age 94 **should be** At age 96

p. 375 Xenopus **should be** *Xenopus*

p. 378 pint in the wall **should be** point in the wall

p. 381 the attenuation of sound **should be** the attenuation of sound, like the attenuation of light,

Polarized light Web Resources

https://www.youtube.com/watch?v=pBh7Xqbh5JQ&list=PL04722FAFB07E38E1&index=22

https://www.youtube.com/watch?v=zNMzUf5GZsQ&list=PL04722FAFB07E38E1&index=23