

ERRATA in the first edition (Chapters 8-14)

Page 216, Eq. 8.13:

The equation should read:

$$LR = \frac{P(x = \beta | SN)}{P(x = \beta | N)} = \exp\left(-\frac{1}{2}\{[\Phi_G^{-1}(P_H)]^2 - [\Phi_G^{-1}(P_{FA})]^2\}\right)$$

Page 230, Chapter 8:

“called *multisensory integration* (discussed further in chapter: Impaired Hearing and Sound Localization)”

should read:

“called *multisensory integration* (discussed further in chapter: *Multisensory Integration*)”

Page 242, Problem 8.5:

- (a) The question refers to *Eqn. (8.33)* instead of Eqn. (8.32).
- (b) azimuth (Δn) should be: *azimuth (Δm)*

Page 249, Chapter 9: Eqn. 9.2b

$$V_{pk}(R) = V_{pk, (R=1)} \quad R \quad \text{should read:} \quad V_{pk}(R) = V_{pk, (R=1)} \cdot R$$

Page 282, Chapter 10: Eqn. 10.12

The equation for x should read:

$$x = A \cdot \left[\exp\left(\frac{u}{B_u}\right) \cdot \cos\left(\frac{v}{B_v}\right) - 1 \right]$$

Page 318, Chapter 11: Fig. 11.8

The third column, third row should read:

$$T_{H,1} = T_H^* - \Delta H_1^*$$

Page 374, Chapter 13: Eqn. 13.14

The right-hand part of the equation should read:

$$\sigma_{R,Map}^2 = \frac{\sigma_S^2}{[1 + (\sigma_S^2/\sigma_P^2)]^2}$$

Page 376, Chapter 13: Eqn. 13.19

The right-hand part of the equation should read:

$$S_{R,Az} = \frac{S_{Az}}{[1 + (S_{Az}/S_P)]^2}$$

$$S_{R,El} = \frac{S_{El}}{[1 + (S_{El}/S_P)]^2}$$

Page 376, Chapter 13: Eqn. 13.20

The right-hand part of the equation should read:

$$\frac{S_{R,El}}{S_{R,Az}} = \frac{S_{El}}{S_{Az}} \cdot \frac{[1 + (\frac{S_{Az}}{S_P})]^2}{[1 + (\frac{S_{El}}{S_P})]^2} > 1$$

(note that substituting for azimuth $S_{Az} = 0.7^2$ and for elevation $S_{El} = 2.5^2$ still yields about 12.7 for the expression, which is still much larger than seen in the data).

Page 409, Chapter 14:

The caption of Figure 4.10 should read:

(Source: After Veugen et al., 2016b, with kind permission Elsevier).

Page 412, Chapter 14: References

- The reference by Veugen et al. has now been published as:

[Ear Hearing 37, 260-270, 2016a.](#)

- The following reference should be added:

Veugen L.C.E., Hendrikse M.M.E., Van Wanrooij M.M., Agterberg M.J.H.,
Chalupper J., Mens L.H.M., Snik A.F.M., Van Opstal A. J.
Horizontal Sound Localization in Cochlear Implant Users with a Contralateral
Hearing Aid. *Hearing Res.*, 336, 72-82 (2016b).