

Errata

p.12 second equation of Eq. (2.26)

Error: $= |\mathbf{a}, \mathbf{c}, \mathbf{b}| = |\mathbf{c}, \mathbf{b}, \mathbf{a}|$

Correct: $= |\mathbf{b}, \mathbf{a}, \mathbf{c}| = |\mathbf{a}, \mathbf{c}, \mathbf{b}|$

p.13 Eq. (2.29)

Error: $= \sum_{i,j,k=1}^3 \epsilon_{ijk} a_i b_j c_j$

Correct: $= \sum_{i,j,k=1}^3 \epsilon_{ijk} a_i b_j c_k$

p.16 second line below Eq. (2.44)

Error: The direction of $\overrightarrow{HP'}$

Correct: For $0 < \Omega < \pi$, the direction of $\overrightarrow{HP'}$

p.16 below Eq. (2.45)

Error: Substituting

Correct: This holds for all Ω . Substituting

p.29 Eq. (3.1)

Error: $\mathbf{a} = a^1 e_1 + a^2 e_2 + a^2 e_3$

Correct: $\mathbf{a} = a^1 e_1 + a^2 e_2 + a^3 e_3$

p.43 Eq. (4.3)

Error: $2q + 3q' = (2q_0 + 3q'_0) + (2q_0 + 3q'_0)i + (2q_0 + 3q'_0)j + (2q_0 + 3q'_0)k$

Correct: $2q + 3q' = (2q_0 + 3q'_0) + (2q_1 + 3q'_1)i + (2q_2 + 3q'_2)j + (2q_3 + 3q'_3)k$

p.47 below Eq. (4.30)

Error: the angle Ω

Correct: the angle Ω''

p.49 above Eq. (4.36)

Error: in the form

Correct: as $\Delta\Omega\mathbf{l}/2$. Hence, we can write

p.49 Eq. (4.36)

Error: $\delta q = 1 + \frac{\Delta\Omega}{2}\mathbf{l}$

Correct: $q = 1 + \frac{\Delta\Omega}{2}\mathbf{l} + O(\delta q^2)$

p.50 first line

Error: used Eq. (4.36)

Correct: used Eq. (4.36) for $q\mathbf{l}(\Delta\Omega)$

p.51 sixth line below Eq. (4.48)

Error: and let $\mathbf{U}$ be the 2×2

Correct: and let $\mathbf{U}''$ be the 2×2

p.51 sixth line from bottom

Error: origin: the the point (x, y)

Correct: origin: the point (x, y)

p.103 Eq. (7.34)

Error: $\dots + \mathbf{x}_1 \wedge e_0 \wedge \mathbf{u} \mathbf{x}_1 \wedge \mathbf{x}_2 \wedge \mathbf{u}$

Correct: $\dots + \mathbf{x}_1 \wedge e_0 \wedge \mathbf{u} + \mathbf{x}_1 \wedge \mathbf{x}_2 \wedge \mathbf{u}$

p.121 Eq. (8.19)

Error: $\dots = -\frac{1}{2}\|\mathbf{x} - \mathbf{c}\|^2 - \frac{r^2}{2}$

Correct: $\dots = -\frac{1}{2}\|\mathbf{x} - \mathbf{c}\|^2 + \frac{r^2}{2}$

p.151 Table 9.1

Error: 3. orthographic projection $d = f \sin \theta$

Correct: 3. equidistance projection $d = f\theta$

p.151 Table 9.1

Error: 5. equidistance projection $d = f\theta$

Correct: 5. orthographic projection $d = f \sin \theta$

p.151 Figure 9.8 caption lines 3–4

Error: 3. Orthogonal projection. 4. Equisolid angle projection. 5. Equidistance projection.

Correct: 3. Equidistance projection. 4. Equisolid angle projection. 5. Orthogonal projection.

p.163 2.1 line 2

Error: $\triangle ABC$

Correct: $\triangle OAB$