Errata
Introduction to the Physics of Highly Charged Ions

Heinrich F Beyer
Viatcheslav P Shevelko
Errata

Page 79 after eq. (3.32)
written: frequency $\omega = 4\pi Rc/n^3$
should be: frequency $\omega = 4\pi R_{Hc}/n^3$

Page 82 3rd line from bottom:
written: radii $r$ and $dr$
should be: radii $r$ and $r + dr$

Page 83 after eq. (3.50)
written: distributions of excited
should be: distributions $r^2 R_{ne}^2$ of excited

Page 84 eq. (3.53)
written:
$$\int_0^{2\pi} \int_0^\pi Y_{\ell' m'}^* (\theta, \varphi) Y_{\ell m} (\theta, \varphi) \sin \theta \, d\theta \, d\varphi = \delta_{\ell\ell'} \delta_{mm'}$$
should be:
$$\int_0^{2\pi} \int_0^\pi Y_{\ell' m'}^* (\theta, \varphi) Y_{\ell m} (\theta, \varphi) \sin \theta \, d\theta \, d\varphi = \delta_{\ell\ell'} \delta_{mm'}$$

Page 128 1st para:
written: Lorentz and Livingston
should be: Lawrence and Livingston

Page 189 eq. (5.50):
written:
$$A(n) = \frac{8A_0}{3} Z_{\text{eff}}^4 [\ln(2n-1) - 0.365] \quad n \geq 2$$
should be:
$$A(n) = \frac{8A_0}{3\omega^5} Z_{\text{eff}}^4 [\ln(2n-1) - 0.365] \quad n \geq 2$$
Page 195 eq. (5.59)
written:
\[ \tau_k = \left[ \sum_{i \leq k} A_{ik} \right]^{-1} \]
should be:
\[ \tau_k = \left[ \sum_{i \leq k} A_{ki} \right]^{-1} \]

Page 195 1st line after eq. (5.59):
written: \( A_{ik} \)
should be: \( A_{ki} \)

Page 317 Figure 6.21:
written caption: Experimental cross sections for \( \text{He}^+ + \text{He}^+ \) collisions as a function of the center-of-mass energy . . .
should be: Experimental cross sections for \( \text{H}^+ + \text{He}^+ \) collisions as a function of the center-of-mass energy...