Errata of the book Weber's Electrodynamics, A. K. T. Assis (Kluwer Academic Publishers, Dordrecht, 1994), ISBN: 0-7923-3137-0.

I thank Arthur Baraov for one of these corrections.

- Page 58, the last but one line should read:

$\vec{a}_j\left(\vec{r}_j', \vec{v}_j' \text{ and } \vec{a}_j'\right)$. In general $\vec{r}_j = x_j\hat{x} + y_j\hat{y} + z_j\hat{z}$ and $\vec{r}_j' = x_j'\hat{x}' + y_j'\hat{y}' + z_j'\hat{z}'$, etc.

- Page 66, Equation (3.40) should read:

$$\frac{dE}{dt} = \frac{dT}{dt} + \frac{dU}{dt} = \left(\vec{v}_i \cdot \vec{F}_{ji} + \vec{v}_j \cdot \vec{F}_{ij}\right) - \dot{r}_{ij}\left[\frac{q_i q_j}{4\pi\varepsilon_0}\frac{1}{r_{ij}^2}\left(1 - \frac{\dot{r}_{ij}^2}{2c^2} + \frac{r_{ij}\ddot{r}_{ij}}{c^2}\right)\right]$$

- Page 84, Equation (4.16) should read:

$$d^2\vec{F}_{ji} = \frac{dq_i dq_j}{4\pi\varepsilon_o}\frac{\hat{r}_{ij}}{r_{ij}^2}\left[1 + \frac{1}{c^2}\left(\vec{v}_{ij}\cdot\vec{v}_{ij} - \frac{3}{2}\left(\hat{r}_{ij}\cdot\vec{v}_{ij}\right)^2 + \vec{r}_{ij}\cdot\vec{a}_{ij}\right)\right]$$

- Page 85, first line of Equation (4.19) should read

$$\frac{dq_{i+}dq_{j+}}{4\pi\varepsilon_o}\frac{\hat{r}_{ij}}{r_{ij}^2}\frac{1}{c^2}\left[\left(v_{i+}^2 - 2\vec{v}_{i+}\cdot\vec{v}_{j+} + v_{j+}^2\right) - \left(v_{i-}^2 - 2\vec{v}_{i-}\cdot\vec{v}_{j+} + v_{j+}^2\right)\right.$$

- Page 85, first line of Equation (4.20) should read

$$-\frac{3}{2}\frac{dq_{i+}dq_{j+}}{4\pi\varepsilon_o}\frac{\hat{r}_{ij}}{r_{ij}^2}\frac{1}{c^2}\left\{\left[\left(\hat{r}_{ij}\cdot\vec{v}_{i+}\right)^2 - 2\left(\hat{r}_{ij}\cdot\vec{v}_{i+}\right)\left(\hat{r}_{ij}\cdot\vec{v}_{j+}\right) + \left(\hat{r}_{ij}\cdot\vec{v}_{j+}\right)^2\right]\right.$$

- Page 96, first line of Equation (4.49) should read

$$\frac{\mu_o}{4\pi}I_i I_j d\ell_i d\ell_j\left(2\frac{x_j}{r_j^3}\frac{dz_j}{d\ell_j} - 3\frac{x_j z_j}{r_j^4}\frac{dr_j}{d\ell_j}\right) = \frac{\mu_o}{4\pi}I_i I_j d\ell_i d\ell_j\left(\frac{d}{d\ell_j}\frac{x_j z_j}{r_j^3} + \frac{x_j}{r_j^3}\frac{dz_j}{d\ell_j} - \frac{z_j}{r_j^3}\frac{dx_j}{d\ell_j}\right)$$

- Page 163, Equation (6.31) should read:

$$\vec{F} = -q_1\left[\frac{\mu_o I}{2\pi\rho_1}\left(\frac{x_1 v_{1z}}{\sqrt{x_1^2+y_1^2}}\,\hat{x} + \frac{y_1 v_{1z}}{\sqrt{x_1^2+y_1^2}}\,\hat{y} - \frac{x_1 v_{1x}+y_1 v_{1y}}{\sqrt{x_1^2+y_1^2}}\,\hat{z}\right)\right]$$

$$-q_1\left(\frac{\lambda_{2+}V_D^2}{4\pi\varepsilon_o c^2}\frac{x_1\hat{x}+y_1\hat{y}}{\left(x_1^2+y_1^2\right)}\right).$$

- Page 166, Equation (6.36) should read:

$$\vec{F} \approx -q\frac{\mu_o I V_D a}{8\rho_1^2}\hat{\rho}_1, \qquad \text{if} \qquad \rho_1 >> a\,.$$

- Page 186, Equation (7.11) should read

$$x_{A,B}^2 = 1 + \frac{\mu\, r_2\alpha}{L^2}\left[1 \pm \sqrt{1+\frac{2EL^2}{\mu\,\alpha^2}}\right]$$

- Page 194, last line of Equation (7.26) should read

$$+\frac{2}{3}r\left(\vec{r}\times\vec{\omega}\right)+\frac{r}{3}\left(\vec{\omega}\cdot\vec{r}\right)\vec{\omega}+\frac{r^2\omega^2}{6}\,\hat{r}-\frac{\left(\vec{r}\cdot\vec{\omega}\right)^2}{2}\,\hat{r}+\left[\vec{r}\cdot\left(\vec{\omega}\times\vec{v}\right)\right]\hat{r}+\frac{r}{3}\left(\vec{r}\times\frac{d\vec{\omega}}{dt}\right)\Bigg]\Bigg\}$$

- Page 245, first line of Equation (B11) should read

$$\vec{F}_{12}^{\,Ritz} = -\frac{q_1 q_2}{4\pi\varepsilon_o}\frac{1}{r_{12}^2}\left\{\left[1+\frac{3-\lambda}{4}\frac{\vec{v}_{12}\cdot\vec{v}_{12}}{c^2}-\frac{3(1-\lambda)}{4}\frac{\dot{r}_{12}^2}{c^2}+\frac{\vec{r}_{12}\cdot\vec{a}_1}{2c^2}\right]\hat{r}_{12}\right.$$